CG CAPTIVA 7

CG Captiva 7
Owner’s Handbook

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/warranty booklet for the Vehicle Identification Certificate.

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Introduction

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current Captiva model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Handbook provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

Using this manual

- The In brief section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Handbook.
- The *Bluetooth*® word mark and logo are registered trademarks and are owned by the Bluetooth SIG, Inc.

Danger, warnings and cautions

⚠Danger

Text marked ⚠ **Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠Warning

Text marked ⚠ **Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

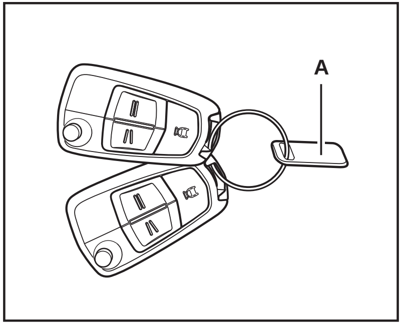
Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

In brief

Initial drive information

Unlocking the vehicle

Remote keyless entry



The key operates all locks and the ignition:

🔒: Lock

🔓: Unlock

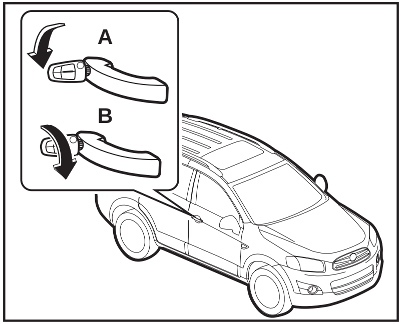
🚗: Unlock tailgate window

The code number for the keys is stamped on the key plate (A).

Keys and locks, see page 15.

Doors, see page 17.

Manual door locks



- To lock all doors, insert the key into the driver's door lock and turn anticlockwise (A), then turn back to the vertical position and remove.
- To unlock all doors, insert the key into the driver's door lock and turn clockwise (B), then turn back to the vertical position and remove.

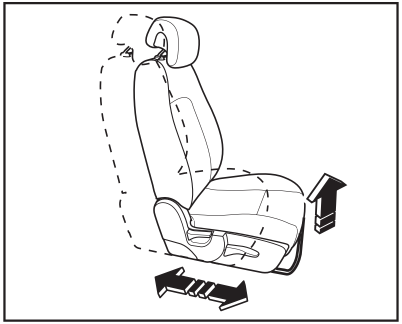
Keys and locks, see page 15.

Doors, see page 17.

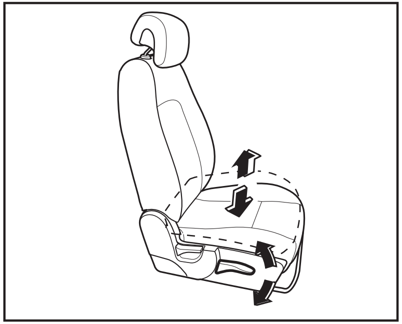
Seat adjustment

The vehicle may have the following levers and switches for seat adjustment.

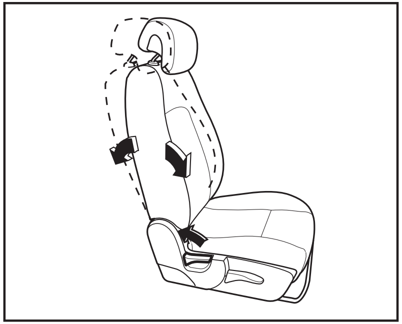
Forwards/backwards (Type A)



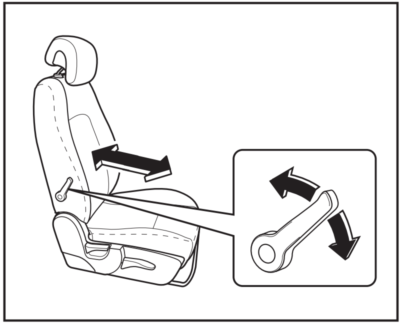
Up/down (Type A)



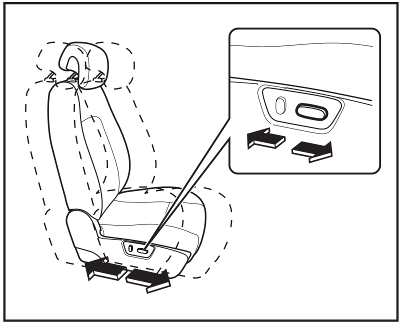
Recline (Type A)



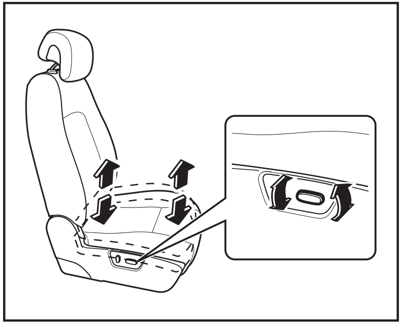
Lumbar



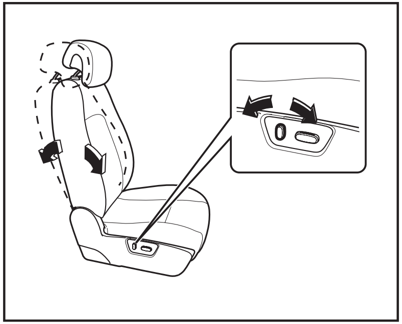
Forwards/backwards (Type B)



Up/down (Type B)



Recline (Type B)



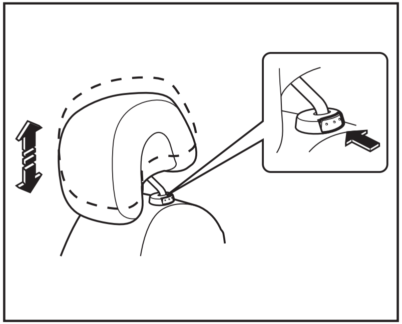
Front seats, see page 30.

Head restraints

⚠Warning

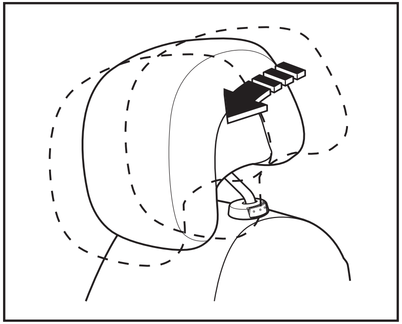
The head restraint safety feature is not intended to rest the head upon. It is solely for the reduction of whiplash neck movement in an accident involving the vehicle.

The centre of the head restraint should be at eye level, never at neck level.



To adjust the height:

1. Push the button in.
2. Pull the head restraint up or push the head restraint down.

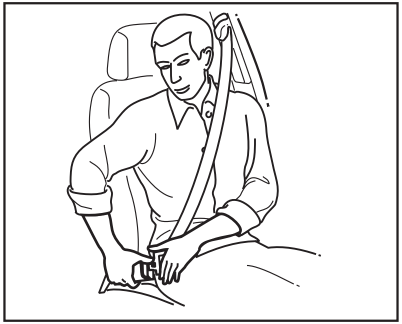


To tilt the front head restraints:

1. Place the head restraint in its upright position by pushing it forward fully and releasing it.
2. Push the head restraint forward carefully to the required position.

Head restraints, see page 29.

Seat belts



The belt should not be twisted. It should lie flat and fit firmly across your hips.

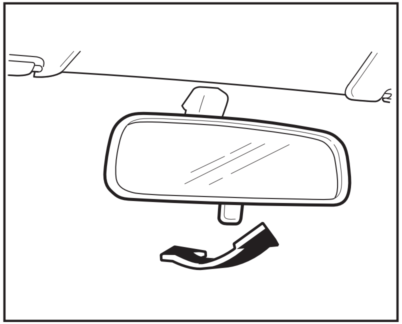
1. Pull the metal tongue across your body.
2. Clip it into the buckle.

   When the metal tongue is locked safely into place you will hear a click.

Three point belt, see page 37.

Mirror adjustment

Rear view mirror



Adjust the rear view mirror by moving right or left, up or down.

To reduce headlamp glare at night from following vehicles, pull the lever towards the rear of the vehicle.

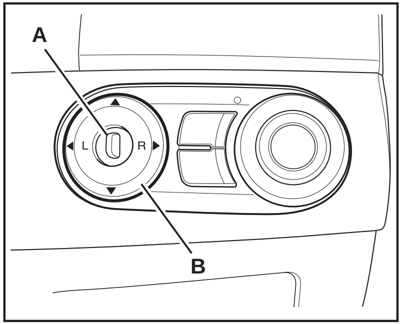
For daylight operation, push the lever towards the front of the vehicle.

Interior mirrors, see page 23.

Automatic dimming rear view mirror, see page 23.

Exterior mirrors

Power mirrors



To adjust the mirrors, turn the ignition to **ACC** or **ON**:

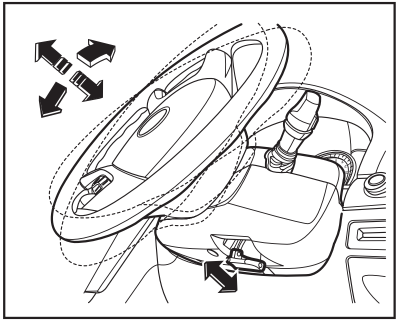
- Move switch (A) to the right to operate the driver side mirror.
- Move switch (A) to the left to operate the passenger side mirror.

Exterior mirrors, see page 22.

Steering wheel adjustment

⚠Warning

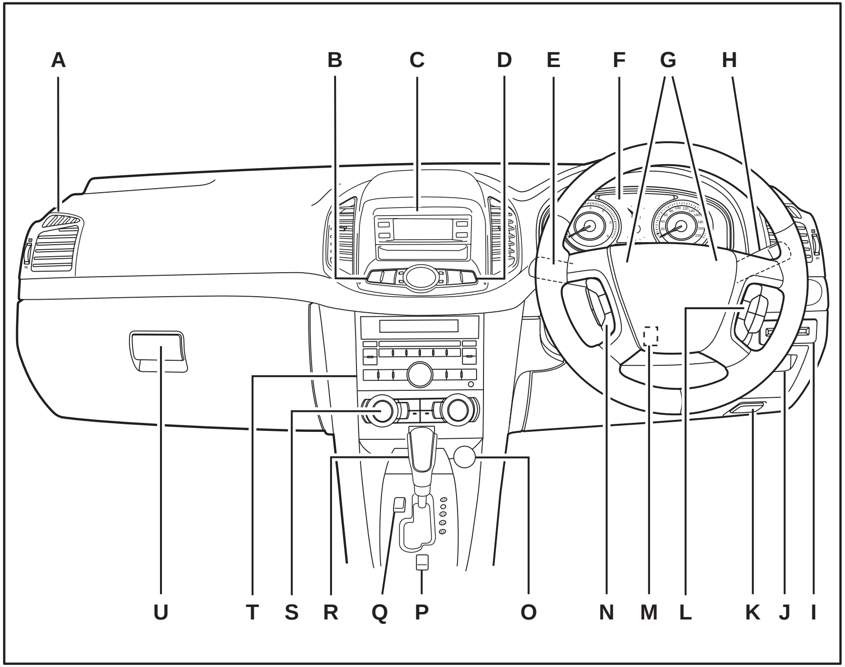
Do not attempt to adjust the steering wheel while driving.



1. To unlock, move the lever down.
2. To adjust, move the steering wheel up, down, closer or away.
3. To lock, move the lever up. Ensure the steering wheel is locked in position before driving.

Controls, see page 54.

Instrument panel overview



A. Side vent outlet 145

B. Hazard warning flasher button 79

Electronic Stability Control (ESC) 163

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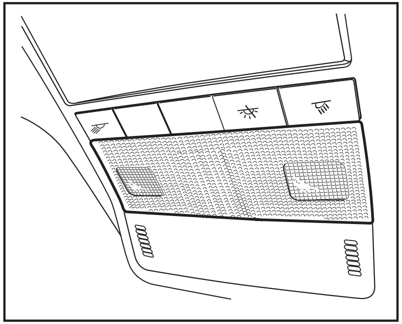
U. Glove box 49

Interior lighting



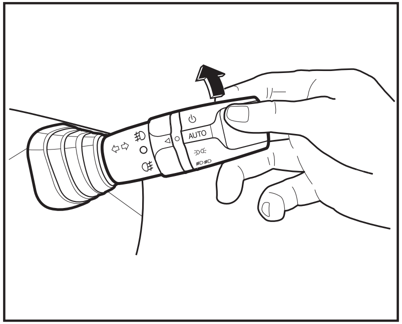
☼: On/off

⇶: Dome lamps

Interior lighting, see page 82.

Dome lamps, see page 83.

Exterior lighting



⏻: All lamps are off.

The switch will return to the **AUTO** position once released.

To turn the automatic lamp control on, turn to ⏻ again.

AUTO: Parking lamps and headlamps will turn on automatically depending on the outside light.

⊃◯⊂: Parking lamps, number plate lamps and instrument panel lights illuminate.

The headlamps will not come on.

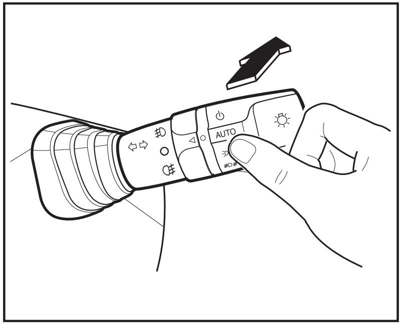
⫻D ≣D: Parking lamps, number plate lamps, instrument panel lights and headlamps illuminate.

‡D: Front fog lamps

D‡ Rear fog lamps

Exterior lighting, see page 78.

High/low beam



High beam: Push lever

Low beam: Pull lever from high beam position

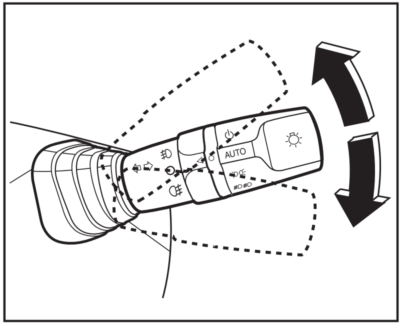
Headlamp flash: Pull lever

The high beam lamps can be flashed even if the headlamps and/or ignition are off.

Exterior lighting, see page 78.

High/low beam, see page 79.

Turn signals



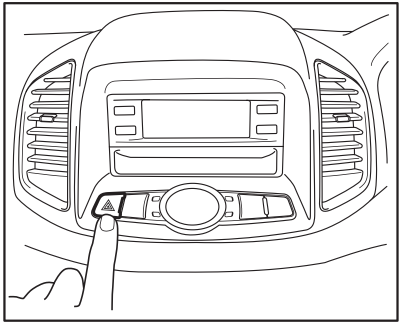
Left: Lever up

Right: Lever down

Exterior lighting, see page 78.

Turn signals, see page 80.

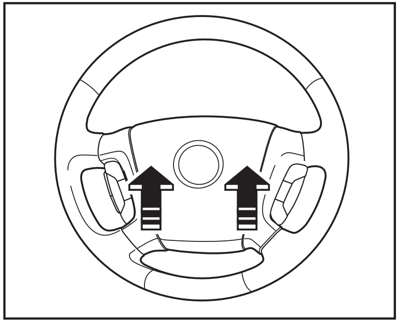
Hazard warning flasher



Press ⚠ to turn the hazard warning flasher on and off when the ignition is in any position.

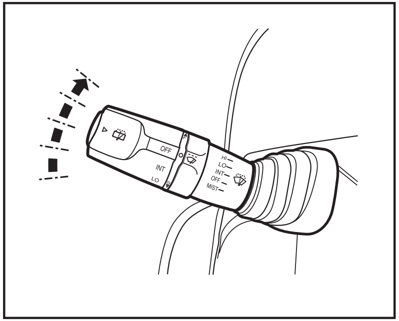
Hazard warning flasher, see page 79.

Horn



Press the horn pad on either side.

Washer and wiper systems



Mist: Wipers cycle while the lever is held down

OFF: Wipers off

INT: Rotate the collar

LO: Move the lever up two levels.

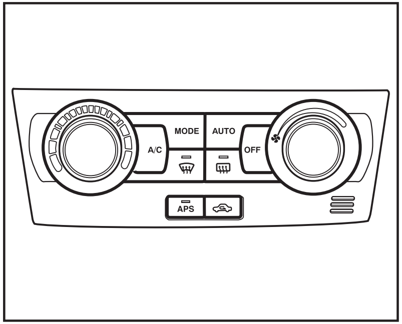
HI: Move the lever up three levels.

Pull to wash the windscreen.

Windscreen wipers/washers, see page 55.

Washer fluid, see page 56.

Climate control



The vehicle may have climate control.

The climate control panel is located in the centre of the dashboard.

The settings are displayed on the Graphic Information Display (GID).

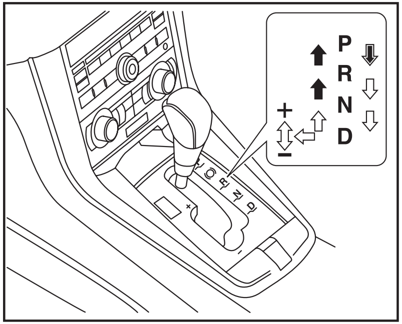
Graphic Information Display (GID), see page 69.

Climate control, see page 137.

Manual air conditioning system, see page 138.

Transmission

6 speed transmission



P: Park **R**: Reverse

N: Neutral **D**: Drive

⇒ Apply the brake pedal and press the select button on the shift lever to shift.

➡ Press the select button on the shift lever to shift.

⇨ It is not necessary to apply the brake pedal or press the select button on the shift lever to shift.

Automatic transmission, see page 155.

Starting off

Check before starting

- Check that windows, mirrors and lamps are clean.
- Visually check tyre inflation. Check the tyre pressures each week.
- Ensure that all doors are closed and secured.
- Position your seat for comfortable driving.
- Adjust rear view mirrors.
- Fasten seat belts.
- Check that the warning indicators illuminate when turning the ignition on.

Starting and operating, see page 149.

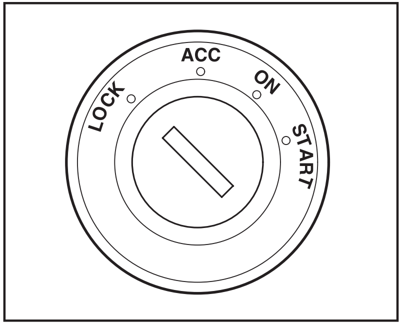
Starting the engine, see page 152.

Starting the engine

⚠Warning

Do not switch the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.



LOCK: The key is inserted and removed only from the LOCK position.

ACC: When the key is in the ACC (accessories) position, the audio system will operate.

ON: When the key is in the ON position, the engine is ready to start and all electrical systems are active.

Do not leave the switch in the ON position for a prolonged period, unless the engine is running, otherwise the vehicle battery will discharge.

START: Petrol engine: Turn the key to the START position momentarily and then release.

The engine starts automatically.

Diesel engine: Turn the key to the START position until the engine starts.

The key automatically returns to the ON position when released.

Ignition positions, see page 150.

Parking

1. Apply the park brake.

   Before leaving the vehicle, ensure (Ⓟ) is illuminated on the instrument panel.

   Electric Park Brake (EPB), see page 161.
2. Select position **P**.
3. Shut all windows.
4. Switch off all exterior lamps.
5. Turn the ignition key to **OFF** and remove the key.
6. Lock all doors.

Keys, doors and windows

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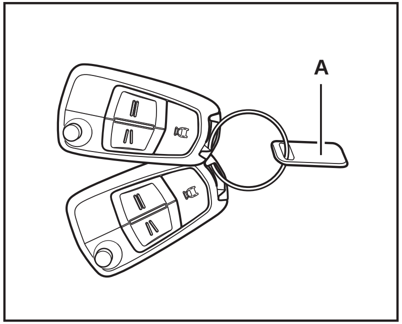
Doors 17
Vehicle security............................ 21
Exterior mirrors 22
Interior mirrors 23
Windows 24
Roof 27

Keys and locks

Keys



The key operates all locks and the ignition:

≡: Lock

⫽: Unlock

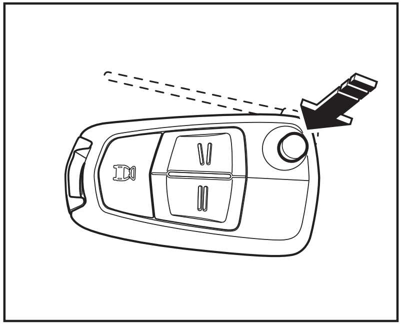
🚙: Unlock tailgate window

The code number for the keys is stamped on the key plate (A).

Record the key number, remove the key plate and keep the number and the key plate in a safe place (not in the vehicle).

If the original keys are lost, any additional or replacement keys must be purchased from and programmed by a Holden Dealer, using the key code number.

Foldaway key blade



1. Press the button to extend the key blade.
2. To retract the key blade, press the button and fold the blade into the key.

   The key engages audibly.

Matching transmitter(s) to the vehicle

Each remote keyless entry transmitter is coded to the vehicle.

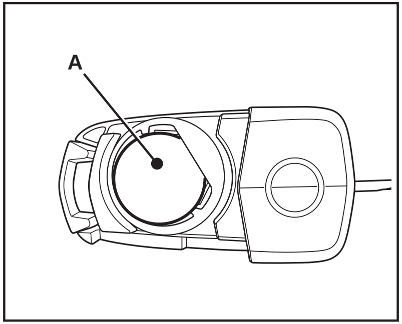
If the vehicle's key is lost, inform a Holden Dealer immediately so the vehicle can be reprogrammed and will no longer recognise the missing key.

Additional transmitters also require re-coding to match the new transmitter.

Up to four keys can be matched to the vehicle at the same time.

> ⚠**Warning**
>
> The remote control unit contains precision electronic parts. To help avoid transmitter trouble:
>
> Do not leave the remote control unit in direct sunlight.
>
> Do not treat the remote control unit carelessly.
>
> Do not allow the remote control unit to get wet.

Replacing the battery in the remote control



As soon as the range of the remote control reduces, replace the battery:

1. Remove the back cover by hand.
2. Remove the battery (A) and replace with the new one, making sure the positive (+) side of the battery is facing up. See Recommended fluids, lubricants and parts on page 237.
3. Reassemble the transmitter ensuring the cover is engaged correctly.
4. Test the operation of the transmitter.

Note
Avoid touching the flat surfaces of the battery, the circuit board and other components inside the remote control with bare fingers. Handling will shorten battery life.

About the keys

- Ensure that other keys on the key ring are not between the key and the vehicle.
- The remote control in the key has a range of approximately six metres.
- The range depends on the charge of the key battery, on ambient conditions, the key's location and the area between the key and the vehicle.
- If the key buttons do not work, move closer to the vehicle.

- Take care that no button is pressed unintentionally, especially when the vehicle is out of sight.
- Metallic window tint reduces the range of the key.
- The key buttons may not work if the vehicle is parked near strong radio activity, such as under TV towers (most likely in high lookout car parks).
- At times, a decrease in range may occur, which is normal.
- If the transmitter does not work:

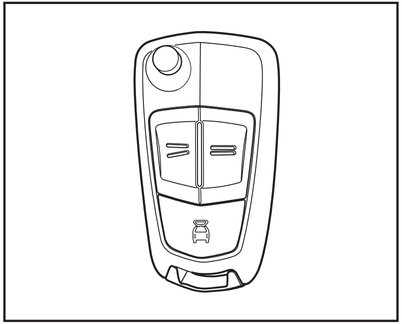
  You may need to stand closer during rainy or snowy weather.

  Other vehicles or objects may be blocking the signal.

  If you continue to have trouble, contact a Holden Dealer.
- If pressing the key buttons does not work, the doors can be locked and unlocked by turning the key in the driver's door lock.
- If the vehicle is delivered with only one key, contact your Holden Dealer as soon as possible.
- Always store spare keys in a safe, dry place.
- Protect the remote control unit against moisture.
- Do not operate the key unnecessarily.
- The buttons on the key do not operate while the key is in the ignition.

Doors

Locking and unlocking



Press ≡ once to:

- Lock all doors.
- Lock the fuel filler door.
- Flash the hazard lamps once.

Press ⫻ once to:

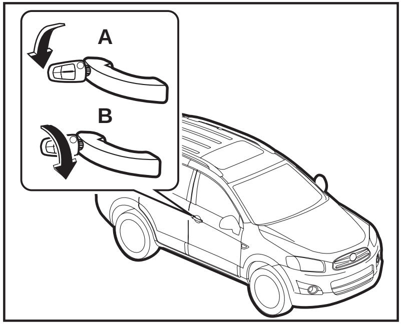
- Unlock the driver's door.
- Flash the hazard lamps twice.

Press ⫻ again within 3 seconds to:

- Unlock the remaining doors.
- Unlock the fuel filler door.

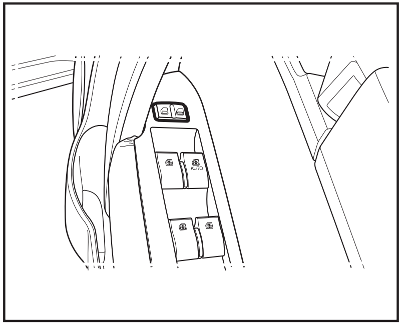
Note
If no door is opened within 30 seconds, all doors will automatically relock.

Manual door locks



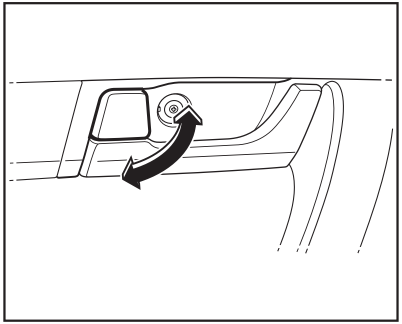
- To lock all doors, insert the key into the driver's door lock and turn anticlockwise (A), then turn back to the vertical position and remove.
- To unlock all doors, insert the key into the driver's door lock and turn clockwise (B), then turn back to the vertical position and remove.

Locking/unlocking from inside



- The door lock switch is located in the driver's door.
- To lock the doors, press the door lock switch on the left side.
- To unlock the doors, press the door lock switch on the right side.

Door lock snibs

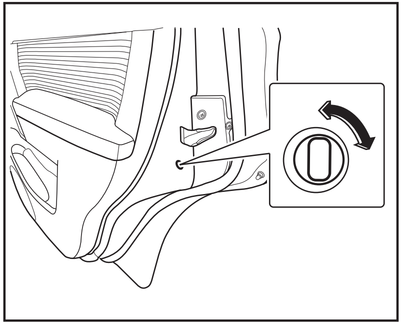


- To lock any door from the inside, push the door lock snib so it is flush with the door handle.
- To unlock any door from the inside, pull the door lock snib so the snib is showing red.
- The driver's door lock snib does not operate when the door is open.

⚠Warning

Before driving, close and lock all doors, especially when young children are in the vehicle.

Child safety rear door locks



Child safety locking helps prevent rear doors being accidentally opened by small children in the vehicle.

The locks are accessible when the door is open.

To prevent the doors from being opened from the inside, use the ignition key to turn the switch away from the vertical position.

⚠Warning

For safety, always check that the lock is operating correctly (after setting) by trying to open the door from inside the vehicle.

Tailgate

⚠Danger

It can be very dangerous to drive with the tailgate and/or tailgate window open. Carbon monoxide (CO) gas can enter into the vehicle. You can not see or smell CO. It can cause unconsciousness and even death.

If you must drive with the tailgate and/or tailgate window open, make sure all other windows are closed and switch the fan on to the highest speed using any setting that brings in outside air. Doing this will force outside air into the vehicle.

Key button

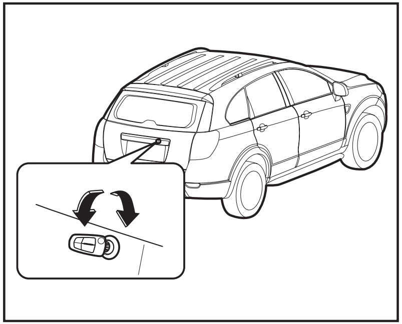
To lock:

- Close the tailgate by pushing down until it latches securely.
- Press ≡ to lock all the doors and the tailgate.

To unlock:

- Press ≡ to unlock all the doors and the tailgate.

Manual tailgate lock

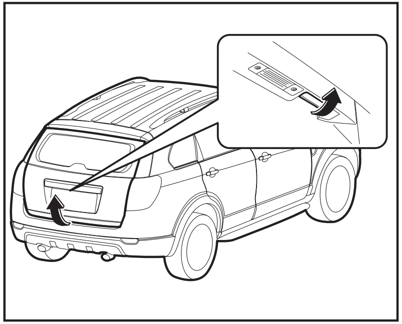


To lock:

- Close the tailgate by pushing down until it latches securely.
- Insert the key and turn clockwise.

To unlock:

- Insert the key and turn anticlockwise.



- To open, lift the handle and raise the tailgate.

Note

🚙 illuminates when the tailgate is open or unlatched.

For tailgate window opening, see Rear windows on page 25.

Vehicle security

Immobiliser

This vehicle is fitted with an immobiliser. It prevents unauthorised engine starting.

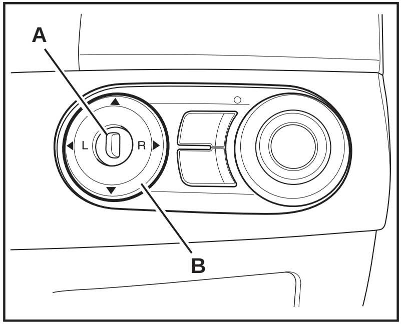
The ignition key will be recognised by the vehicle when the key is inserted into the ignition.

When difficulties in starting the vehicle are experienced, check the following:

- Do not have large bundles of keys attached to the ignition key.
- Do not have keys from other vehicles attached to the ignition key.
- If the vehicle’s key is lost, contact a Holden Dealer immediately so the vehicle can be reprogrammed to no longer recognise the lost key as valid.
- Replacement keys can only be programmed by a Holden Dealer.
- A maximum of four keys can be programmed to suit one vehicle.
- Do not attempt to start the vehicle with a non-approved key.
- If a fault occurs or an incorrectly programmed key is used to start the vehicle, 🔒 will illuminate. Contact a Holden Dealer.

Exterior mirrors

Power mirrors



The switches for the exterior rear view mirrors are located on the driver side of the dashboard below the side vent.

To adjust the mirrors, turn the ignition to **ACC** or **ON**:

- Move switch (A) to the right to operate the driver side mirror.
- Move switch (A) to the left to operate the passenger side mirror.
- Press the arrows on the switch (B) to adjust the mirror in the direction the arrow is pointing.
- Move switch (A) back to its centre position to deactivate switch (B).

Caution

Do not adjust the mirrors while driving.

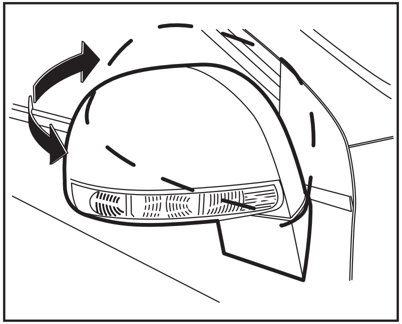
Moving the mirrors forcibly by hand can damage the electric mirror drive system.

Heated mirrors

The vehicle has heated rear view mirrors.

The heating is switched on automatically when the rear window demister is switched on. See Rear window demister on page 139.

Folding mirrors



When the vehicle is parked the mirrors may be manually folded flat against the side of the vehicle.

Note

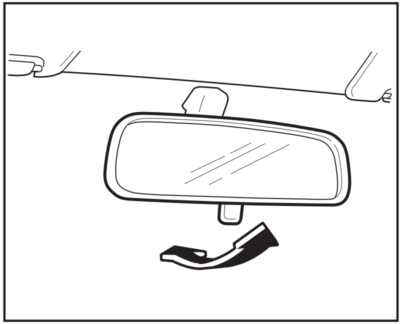
The vehicle may have exterior mirror lamps. They can only be changed by a Holden Dealer.

Caution

The folding mirrors are a convex shape, to provide a wider view. Objects seen in these mirrors are closer than they appear.

Interior mirrors

Rear view mirror

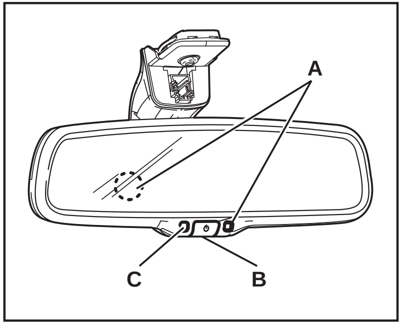


Adjust the rear view mirror by moving right or left, up or down.

To reduce headlamp glare at night from following vehicles, pull the lever towards the rear of the vehicle.

For daylight operation, push the lever towards the front of the vehicle.

Automatic dimming rear view mirror



The vehicle may have an automatic dimming rear view mirror.

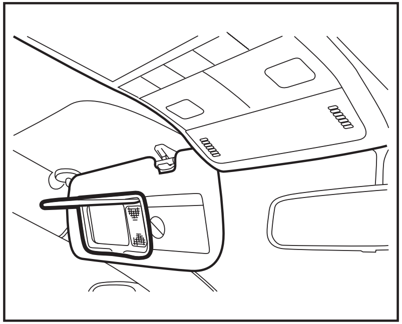
The mirror automatically adjusts to reduce headlamp glare, via the sensors (A), at night from following vehicles.

- When the ignition is turned to ON, the indicator lamp (C) illuminates.
- To switch off and return to day view, press (B).

⚠Warning

Do not cover the sensors or hang items on the mirror.

Sun visor mirrors



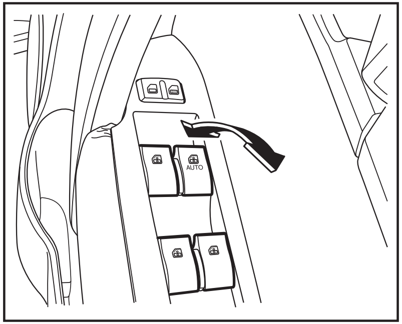
The mirrors are located on the rear side of the sun visors and include a ticket holder.

To view the mirror, pull the cover up from the lower edge.

The vehicle may have illuminated lamps. They turn on and off when the cover is opened and closed.

Windows

Power windows



- The switches for the power windows are located on the driver's door panel.
- The front switches are for the front windows and the rear switches are for the rear windows.
- Individual switches are also located on the front passenger's door and on the rear doors.
- The switches operate when the ignition is in the **ACC** or **ON** position.

Driver's window

The driver's window has an auto down two stage function.

- To lower the window, press the switch down firmly, then release.

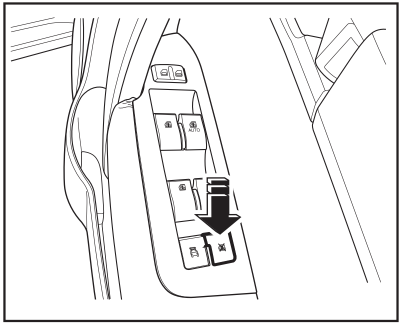
  The window will automatically open fully.
- To stop the window while it is opening, lift the switch up.
- To raise the window, pull the switch up and hold.
- To stop the window, release the switch.

Passenger windows

- To open a passenger window, push the switch down and hold until the window reaches the desired position, then release.
- To close a window, pull the switch up until the window reaches the desired position, then release.

Note
The rear windows do not open fully.

Lock switch



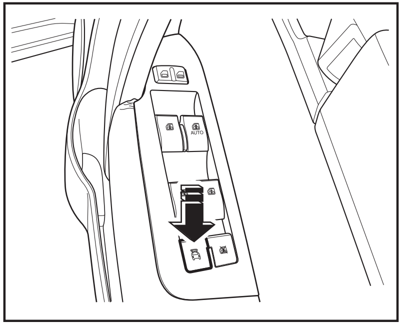
The lock switch for the power windows is located on the driver's door armrest.

- Press the switch to prevent operation of passenger windows.
- Press the switch again to enable operation of passenger windows.

Note
When the ignition key is turned to **LOCK** or removed, the windows can be operated for up to 10 minutes or until the driver's door is opened.

Rear windows

Tailgate window

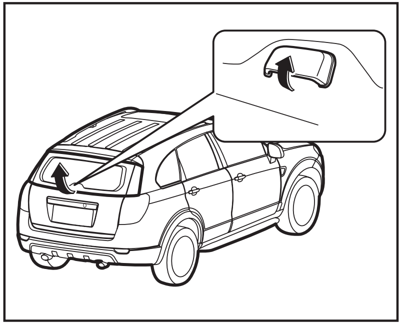


- Press 🚘 on the driver's door armrest to unlock the tailgate window.
- Alternatively, press 🚘 on the key for more than 2 seconds.

Note
🚙 illuminates when the tailgate is open or unlatched.

⚠Warning

Do not operate the tailgate window unlock button while the vehicle is moving.



- To open the tailgate window, hold the handle and lift upwards.
- To close the tailgate window, push down until it latches securely.

Note

- The tailgate window will lock automatically.
- illuminates when the tailgate window is open or unlatched.

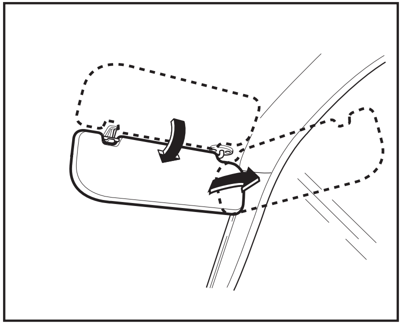
⚠Warning

To assure the safety of children and others, ensure that all passengers have their hands, etc. clear of the windows.

Remove the key when leaving the vehicle, to avoid unintentional window operation by children.

Ensure the lock switch has been set to the activated position when children are in the vehicle.

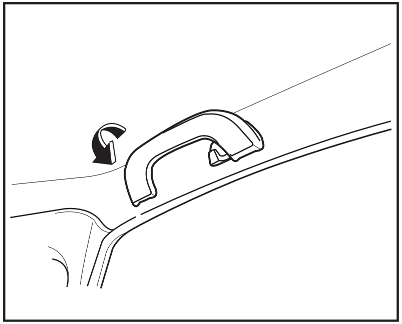
Sun visors



The sun visors may be adjusted to two positions:

1. Fold the sun visor down towards the front of the vehicle.
2. Unclip the inner hinge and fold the sun visor outwards over the side window.

Assist grips



Assist grips are located above the passenger doors to assist passengers getting in and out of the vehicle.

The assist grips above each rear door include a coat hook.

Roof

Sunroof

The vehicle may have a sunroof.

⚠Warning

Always observe the following precautions:

Do not place fingers or objects near the sunroof when operating.

Do not place heavy objects on or around the sunroof.

Remove debris from the outside of the sunroof.

When leaving the vehicle unattended, close the sunroof fully.

As at all other times, all occupants must wear their seat belts whether the sunroof is open or closed.

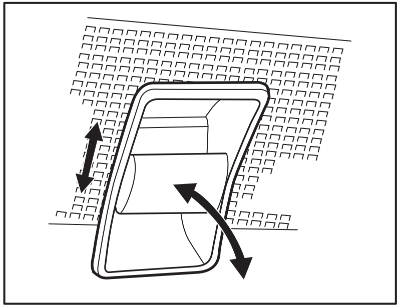
Failure to observe these precautions may result in personal injury or damage to your vehicle.

Fitting an aftermarket sunroof may void the New Vehicle Voluntary Warranty on your vehicle and could result in injury to the vehicle occupants in the event of an accident.

The sunroof:

- Will operate with the ignition key in the **ON** or **ACC** positions.
- Can be raised or can slide back into the roof.

The sunroof switch is located between the sun visors.



Open or close

- Slide the switch rearward and release to open the sunroof.
- Slide the switch forward or rearward to stop movement.
- Slide the switch forward and hold to close sunroof.

Raise or close

- Press and hold the switch to raise the sunroof.
- Pull and hold the switch to close the sunroof.

Sunblind

The sunblind opens automatically with the sunroof or can be manually operated.

The sunblind must be manually closed and cannot be closed with the sunroof open.

Note

The sunblind must be manually operated when the sunroof is raised.

Cleaning and maintenance

Regularly clean the glass, seals and roof flanges with a moist, soft cloth.

Caution
The tinted glass panel on the sunroof is heat and UV resistant. Ensure that due care is taken when cleaning.

Seats, restraints

Head restraints 29
Front seats 30
Rear seats 33
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Airbag system 39
Child restraints 43

Head restraints

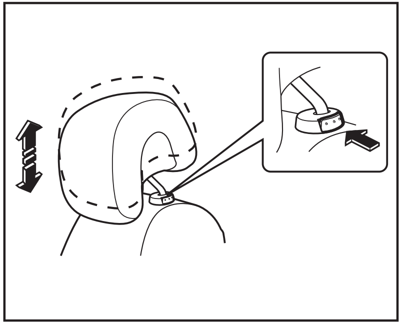
⚠Warning

Do not drive the vehicle with the head restraints removed, as it would increase the risk of a neck injury in the event of an accident.

Do not attempt to adjust the driver's head restraint while the vehicle is in motion. This could cause a loss of control of the vehicle.

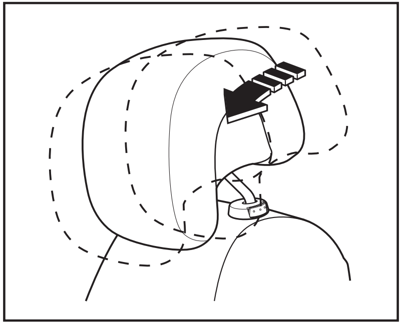
The head restraint safety feature is not intended to rest the head upon. It is solely for the reduction of whiplash neck movement in an accident involving the vehicle.

The centre of the head restraint should be at eye level, never at neck level.



To adjust the height:

1. Push the button in.
2. Pull the head restraint up or push the head restraint down.



To tilt the front head restraints:

1. Place the head restraint in its upright position by pushing it forward and releasing it.
2. Push the head restraint forward in stages to the required position.

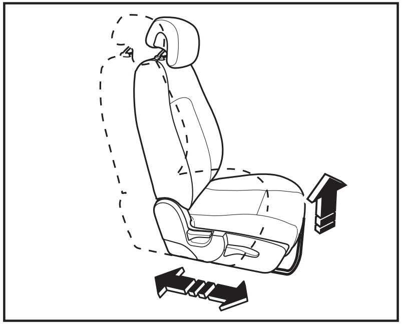
Front seats

Seat position

Seat adjustment

The vehicle may have the following levers and switches for seat adjustment.

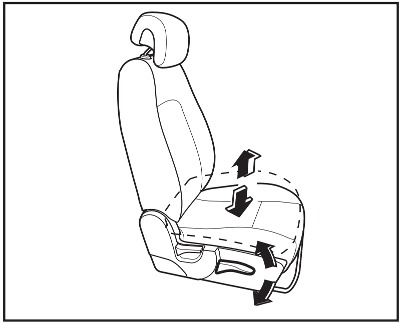
Forwards/backwards (Type A)



Move the seat forwards or backwards by lifting the bar at the front and sliding the seat.

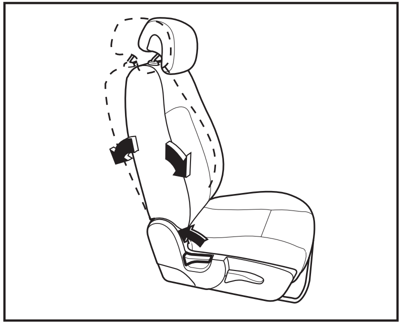
Release the bar to re-engage the latch.

Up/down (Type A)



Raise or lower the seat cushion by moving the lever up or down.

Recline (Type A)

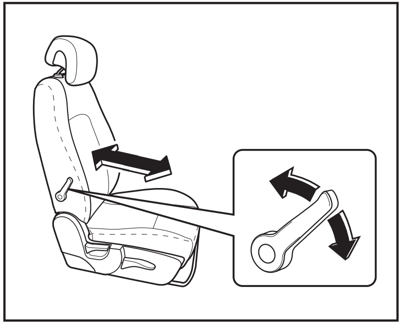


Adjust the seatback by lifting the lever.

⚠Warning

To avoid reducing the effectiveness of seat belts, seatbacks should only be upright or at most semi-reclined when the vehicle is moving.

Lumbar

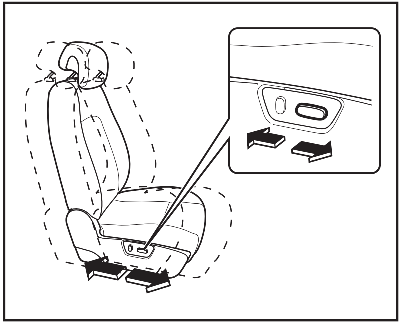


Adjust the lumbar support by pulling or pushing the lever.

⚠Warning

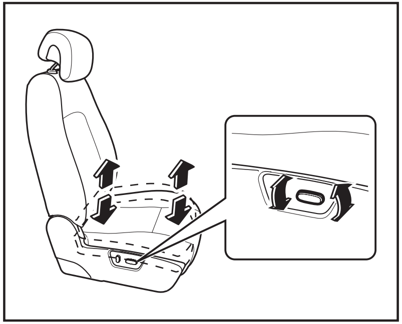
Do not adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.

Forwards/backwards (Type B)



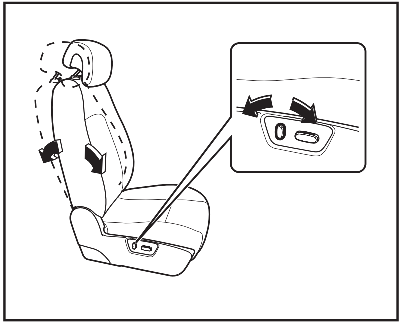
Move the seat forwards or backwards by moving the horizontal switch forwards or backwards.

Up/down (Type B)



Raise or lower the seat cushion by moving the lever up or down at the front, rear or by moving the entire switch.

Recline (Type B)

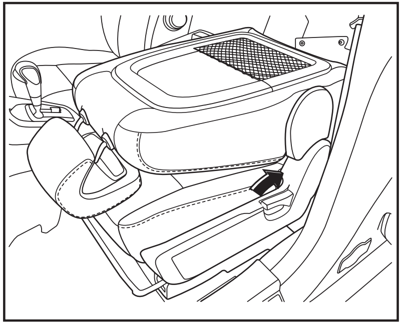


Adjust the seatback by tilting the vertical switch forwards or backwards.

⚠Warning

To avoid reducing the effectiveness of seat belts, seatbacks should only be upright or at most semi-reclined when the vehicle is moving.

Seatback folding



To fold the front passenger's seatback:

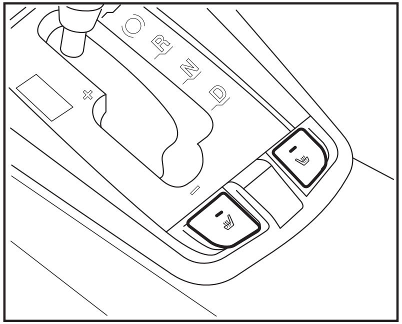
1. Push the head restraint forward fully. See Head restraints on page 29.
2. Move the seat backwards as far as it will go.
3. Lift the reclining lever and fold the seatback forward until it stops.

To unfold the front passenger’s seatback:

1. Lift the seatback and push it to it’s original position.
2. Ensure the seatback is securely latched by pulling it forwards and backwards.
3. Push the head restraint rearwards to it’s original position.

Heated front seats

The vehicle may have heated front seats.



To warm the seat:

1. Turn the ignition key to **ON**.
2. Press ♨ or ♨.

The light in the button illuminates.

To turn the heater off:

1. Press ♨ or ♨ again.

Caution

Prolonged use of the heated seats for people with sensitive skin is not recommended.

Rear seats

⚠Warning

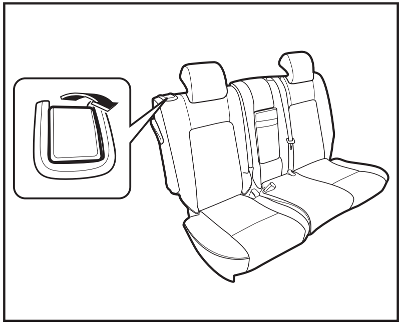
Do not press the release button on the top of the seatback while the vehicle is moving. This could cause damage or injuries to the occupants.

Do not allow passengers to sit on the folded seatbacks while the vehicle is in motion. Unrestrained luggage or passengers on a folded seatback could be thrown within or ejected from the vehicle in a sudden stop or accident.

Do not allow passengers to sit in the third row seats with the rear seats in the folded position.

Second row seats

Recline



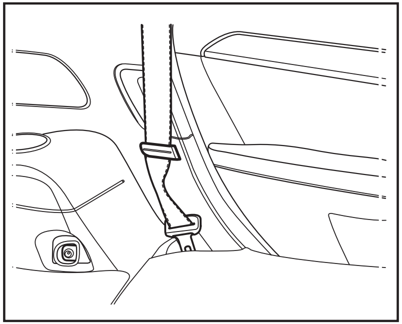
To partially recline the seatbacks:

1. Lift the lever.
2. Move the seat to the required position then release the lever.

Seatback folding

To fold individual seatbacks:

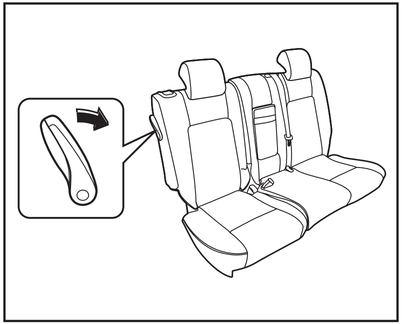
1. Ensure all three seat belts are unbuckled and the front seatbacks are not reclined.
2. Push the head restraint down fully. See Head restraints on page 29.
3. Lift the lever and fold the seatback forwards.



To unfold the seatbacks:

1. Hook the seat belts around the retaining guides.
2. Lift the seatback and push it to it’s original position.
3. Unhook the seat belts from the retaining guides.
4. Ensure the seatback is securely latched by pulling it forwards and backwards.

Double folding seatback



To fold the seatbacks:

1. Ensure all three seat belts are unbuckled and the front seatbacks are not reclined.
2. Push the head restraint down fully. See Head restraints on page 29.
3. Pull the lever forwards and fold the seatback.

   The seats will tumble forwards automatically.

   Gas struts will hold the seats in the folded position.

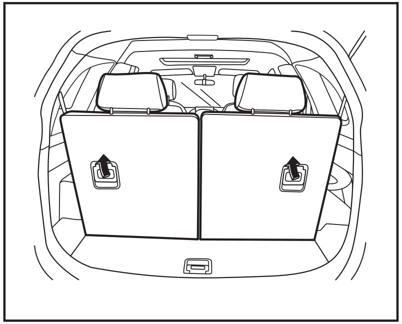
Note
Do not operate the lever when the seats are in the folded position.

To unfold the seatbacks:

1. Hook the seat belts around the retaining guides.
2. Guide the rear seat cushion down.
3. Latch the rear seat cushion securely on the floor by pushing it down and up.
4. Lift the seatback and push it to it’s original position.
5. Ensure the seatback is securely latched by pulling it forwards and backwards.
6. Unhook the seat belts from the retaining guides.

Third row seats

Seatback folding



To fold the seatbacks:

1. Ensure the seat belts are unbuckled.
2. Push the head restraint down fully. See Head restraints on page 29.
3. Lift the lever on the back of each seatback.
4. Push the seatback forwards until it stops.

To unfold the seatbacks:

1. Lift the seatback and push it to it's original position.
2. Ensure the seatback is securely latched by pulling it forwards and backwards.

Seat belts

How to wear seat belts properly

⚠Warning

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the occupant.

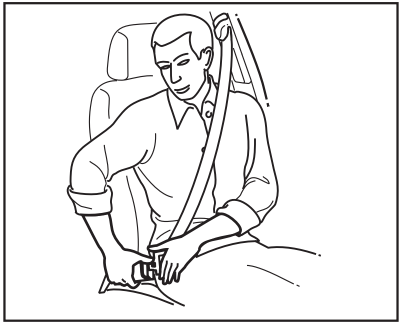
Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

Three point belt

Fitting



The belt should not be twisted. It should lie flat and fit firmly across your hips.

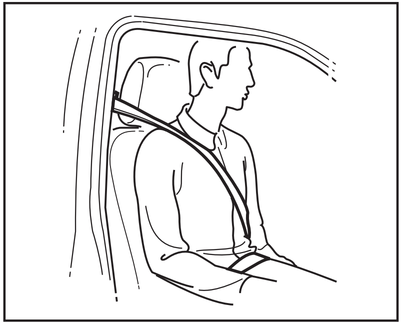
1. Pull the metal tongue across your body.
2. Clip it into the buckle.

   When the metal tongue is locked safely into place you will hear a click.

> **⚠Warning**
>
> The tongue must engage and lock inside the buckle for the seat belt to function properly.

3. Give a gentle pull on the buckle to ensure full engagement.
4. Settle the belt at the hip.
5. Run your hand under the sash from hip to shoulder.

The belt should fit comfortably. Any extra belt length retracts automatically.



Note

For your safety, wear the lap section of the seat belt as low as possible on your hips, not on your waist or abdomen.

The emergency-locking retractor belt allows you to move while the vehicle is travelling normally, but locks immediately on fast braking, impact with a solid object or any quick movement by the occupant.

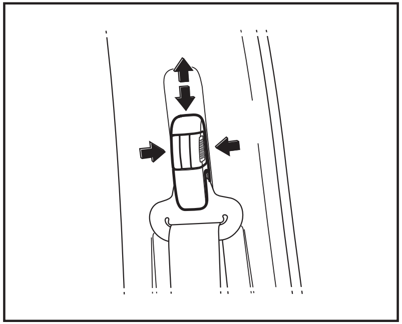
Removing

1. Press the release button on the buckle.
2. Allow the belt to retract.
3. Check that it fully retracts without twisting or turning.

Shoulder height adjust

⚠Warning

Do not attempt to adjust the seat belt height while driving. It could cause loss of control of the vehicle.



Adjust the position of the seat belt anchor to suit the height of the wearer.

1. Squeeze the release buttons.
2. Move the adjuster up or down as required.
3. Lock the safety belt anchor in position.
4. Ensure that the anchor clicks into position.
5. Adjust the height so the seat belt passes over the shoulder and rests against the shoulder.

   It must not pass over the neck or upper arm.

Seat belt use during pregnancy

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seat belt.

A pregnant woman should wear a three point belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

Seat belt care

⚠Warning

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. Never use bleach.

The belt should be replaced if webbing becomes frayed, contaminated or damaged.

Maintenance of seat belts

- Check the seat belts regularly.
- Check the buckles and retractor mechanisms.
- Maintenance of seat belts is part of the scheduled maintenance. Refer to the Service/Warranty Booklet.

Replacing seat belts after a crash

⚠Warning

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

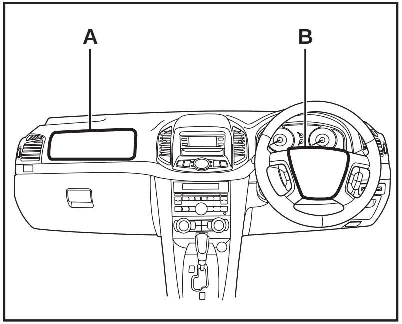
Airbag system

⚠Warning

Airbags are part of the Supplemental Restraint System (SRS) as they assist, but do not replace seat belts. Airbags do not deploy in every accident. Various factors dictate whether they deploy including speed, angle of collision and object hit. Airbags are not designed to inflate in all collisions. Seat belts must be worn by all passengers whenever the vehicle is moving.

Airbags inflate with great force. If you are too close to an inflating airbag it may cause injury. Seat belts help keep you in position for airbag inflation in the event of a collision.

Front airbag system



The airbag system consists of one airbag in the dashboard on the passenger side (A) and one in the steering wheel (B). These are identified by the word **AIRBAG**.

A label is attached under the sun visor on the passenger side.

⚠Warning

The horn pad must not be covered with adhesive or any other material.

The driver should adjust the seat as far rearward as possible while still maintaining control of the vehicle.

The wording **AIRBAG** above the glove box and a label attached under the sun visor indicate that a passenger airbag is fitted.

⚠Warning

Do not place any objects on or over the dashboard or between an airbag and yourself.

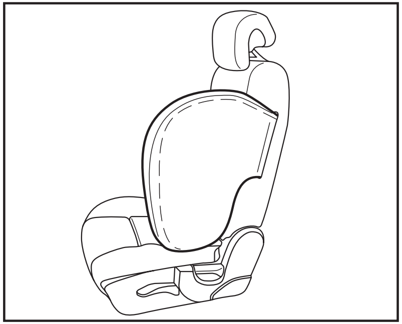
Do not hang anything from the sun visor or mirror.

Passengers must not rest their feet on the dashboard.

Front airbags will inflate in certain severe frontal or near frontal impacts. Front airbags are not designed to inflate if the vehicle is struck from the side, rear or in rollovers. Always wear a seat belt.

Side impact airbags (SIAB)

SIAB are stored in the sides of the front seats, the side closest to the door.



Note
SIAB deploy in most, but not all, severe side impacts.

Because there is limited time available to detect some side impacts, it is not possible to deploy the SIAB in all serious accidents.

A SIAB will deploy in certain severe side impacts. SIAB are not designed to inflate if the vehicle is struck from the front, rear, or in rollovers. Always wear a seat belt.

⚠Warning

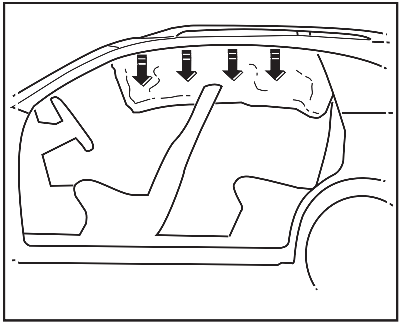
Do not fit unauthorised seat covers as they may impair the deployment of the Side Impact Airbags (SIAB).

Do not position your body or any object (including pillows) between front seats and doors.

Do not lean on, or sleep against, the door. Always sit centrally in the seat.

Always wear a seat belt.

Curtain airbag system



Curtain airbags are stored in the roof, just above the front and rear doors. The labels are on both door lock pillars.

Note

Curtain airbags:

- Do not protect the third row seat passengers.
- Deploy in most, but not all, severe side impacts.
- Only deploys on the side of the vehicle that is struck.
- Do not deploy in all serious accidents.

  There is limited time available and it is not possible to detect some side impacts.
- Are not designed to inflate if the vehicle is struck from the front, rear, or in rollovers. Always wear a seat belt.

⚠Warning

Do not position your body or any object (including pillows) in the area in which the airbag inflates.

There must be no objects in the area in which the airbag inflates.

Use the hooks above the doors only to hang up light articles of clothing.

Do not place any objects in the pockets of the hanging items.

Do not hold onto the assist grips (above the doors) while seated in the vehicle.

Do not lean on, or sleep against the front or rear doors. Always sit centrally in the seat. Always wear a seat belt.

Seat belt pretensioners

Front seat belt pretensioners are part of the Supplemental Restraint System (SRS).

- In certain severe collisions the seat belts are tightened by the seat belt pretensioners.
- When activated illuminates on the instrument panel.

  The pretensioner system needs to be replaced by a Holden Dealer.
- The seat belts remain operational but not the pretensioners.
- If illuminates at any other time, contact a Holden Dealer immediately.
- See Airbag and Supplemental Restraint System (SRS) light on page 62.
- Always wear a seat belt.

Servicing

The SRS system needs to be checked by a Holden Dealer if:

- The steering wheel or dashboard area is scratched, cracked or damaged.
- The head lining side panels are damaged.

Note

- Do not tamper or interfere with the airbag system.

  Airbag system failure or accidental deployment may occur.
- Do not touch any airbag system components or wires.

  The wires can be identified by yellow tape wrapping, yellow tubing or yellow connectors.
- It is recommended that any work to the airbag system, electrical system, dashboard area, steering column and steering wheel be carried out by a Holden Dealer.

- Scrapping a vehicle that has an uninflated airbag can be hazardous. Contact a Holden Dealer for assistance.

Adding equipment

Roo/nudge bar

If a roo/nudge bar is to be fitted, it is critical that the Holden approved roo/nudge bar be used.

See Fitting roo/nudge bars on page 183.

Child restraints

If travelling with children in the vehicle, child restraints are required.

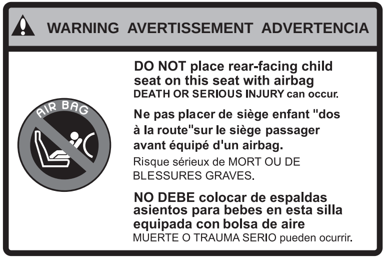
⚠Warning

WARNING – EXTREME HAZARD

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

Remember that it is safest for children to be seated in the rear seats.



WARNING AVERTISSEMENT ADVERTENCIA

DO NOT place rear-facing child seat on this seat with airbag
DEATH OR SERIOUS INJURY can occur.

Ne pas placer de siège enfant "dos à la route"sur le siège passager avant équipé d'un airbag.
Risque sérieux de MORT OU DE BLESSURES GRAVES.

NO DEBE colocar de espaldas asientos para bebes en esta silla equipada con bolsa de aire
MUERTE O TRAUMA SERIO pueden ocurrir.

⚠Warning

This manual provides you with general information concerning child restraints only.

The driver is required by law to ensure that passengers are suitably restrained. In States and Territories of Australia and New Zealand, specific laws exist which require children to be seated in approved child restraints.

Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

⚠Warning

Always ensure that the seat belt fits firmly around the child restraint.

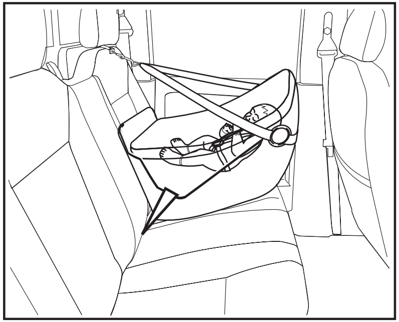
If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

Children should be restrained at all times when travelling in a vehicle.

⚠Warning

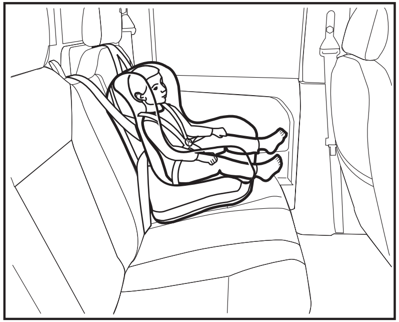
Always follow the child restraint manufacturer’s fitting instructions when installing a child restraint into the vehicle.

Infants



Rearward facing infant capsules are designed so that in the event of a collision, impact forces will be evenly spread over the baby’s back, with minimal jarring to the vulnerable head and neck area.

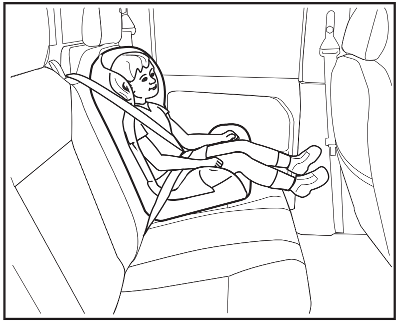
Young children



Forward facing child seats are for use when the child is able to sit and easily hold their head upright.

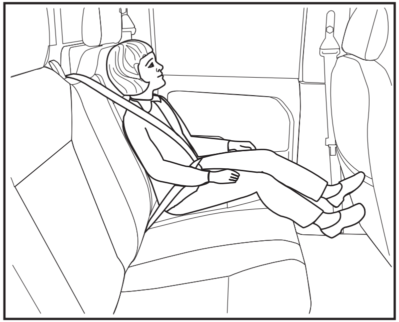
It is also possible to purchase convertible seats which can be used as a rearward facing infant restraint or converted to a forward facing child seat.

Booster seats



Booster seats are for when children outgrow a typical forward facing child seat, but are still too small for three point seat belts.

Older children



A child should use a normal three point seat belt only when:

- They can sit against the back of the rear seat with knees bent comfortably at the edge of the seat.
- The lap belt rests low and snug across the hips, not across the stomach.
- The sash belt is centred on the shoulder and chest.
- They are able to stay seated like this for the entire trip.

Where to put the restraint

⚠Warning

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses, or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustrations) are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

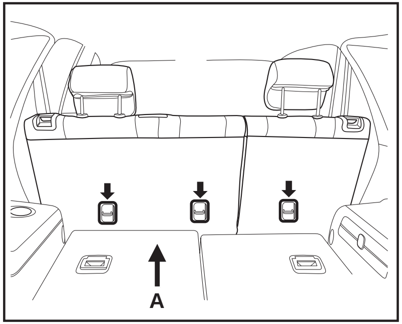
Use only Standards Australia and New Zealand approved child restraints and harnesses. Only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Where legally allowable, you may install a forward-facing child restraint in the front seat, but always move the passengers seat as far back as it will go.

Remember, it is safest for children to be seated in the rear seat.

Child restraint installation locations

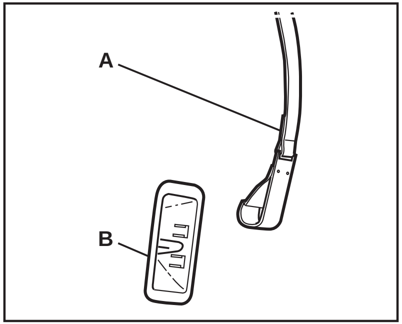
Anchor points



A. Front of vehicle

Tether anchors are located on the rear of the second row seats.

Attaching the child restraint



1. Place the child restraint on the second row rear seat.
2. Attach the child restraint to the anchors following the instructions supplied with the child restraint.
3. Attach the clip on the child restraint tether strap (A) to the tether anchor (B), ensuring there are no twists in the tether strap.

Note

Positioning a child restraint in front of an adjustable head restraint:

- If using a dual tether, route the tether around either side of the head restraint.
- If using a single tether, raise the head restraint and route the tether under the head restraint between the two mounting posts.

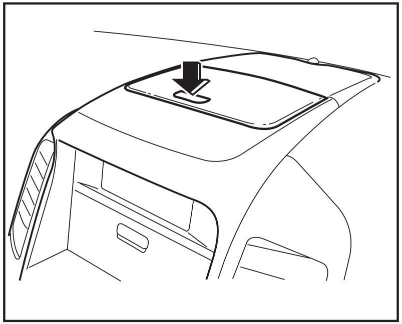
Tighten the tether straps following the instructions supplied with the child restraint.

Storage

Storage compartments 48
Additional storage features...........52

Storage compartments

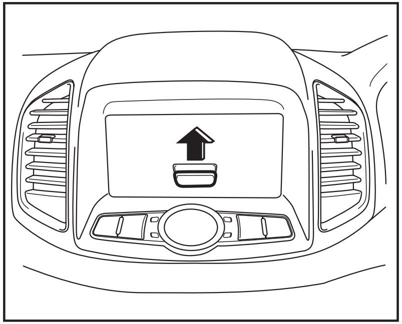
Upper storage



The vehicle has an upper storage compartment in the top of the instrument panel.

- Use to store small items.
- If the compartment has a lid, push the button down to open.

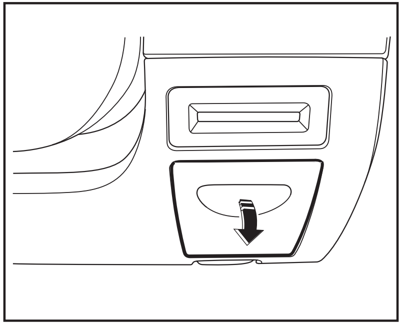
Centre storage



The vehicle may have a centre storage compartment in the centre of the instrument panel.

- Use to store small items.
- To open, push the button upwards.

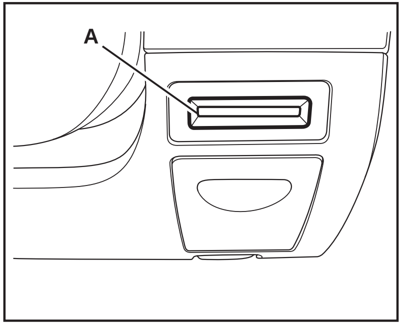
Coin storage



The coin storage compartment is located on the driver side of the dashboard.

- To open, pull the handle rearwards.

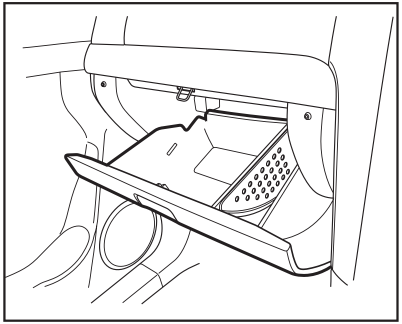
Card holder



The card holder is located on the driver side of the instrument panel.

- Insert a card into the slot (A).

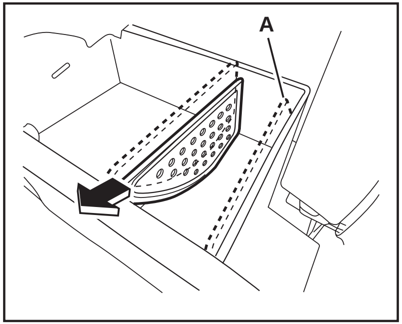
Glove box



The glove box is located on the passenger side of the dashboard.

- To open, pull the handle rearwards.
- To close, push the lid firmly back into place to engage the latch.

Inner partition



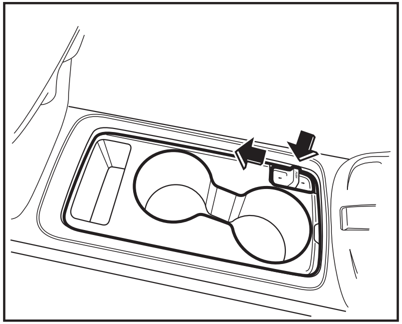
The inner partition may be removed to store larger items.

- Store the partition at the side of the glove box (A).

Cup holders

Cup holders are located between the two front seats, within the rear armrest and on the passenger side of the rear load area.

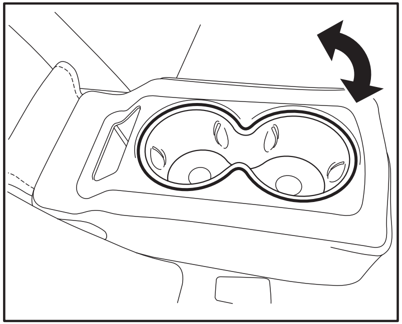
Front cup holders



The front cup holders are located above a storage bin.

- To open, push the lever down and slide rearwards.

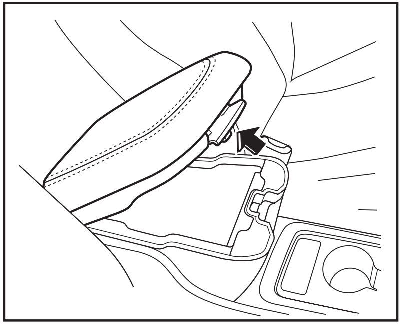
Rear armrest cup holders



The rear cup holders are located between the two second row seats, within the armrest.

- To open, pull the strap downwards.

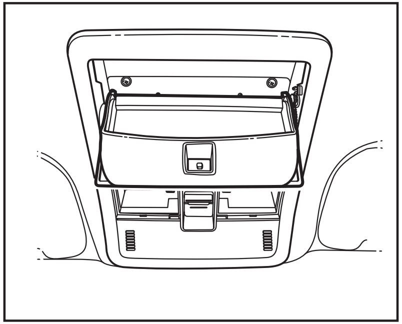
Front centre console



The centre console bin is located between the two front seats.

- To open the lid, pull up on the lever and lift upwards.
- To close, lower the lid and push down to engage the latch.

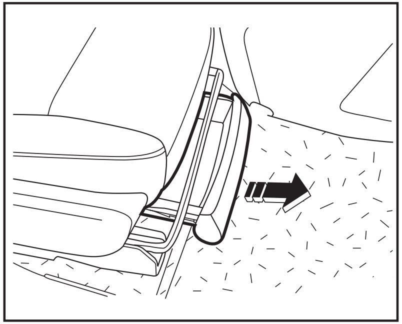
Sunglasses holder



The sunglasses holder is located in the roof and is designed to accommodate one pair of sunglasses.

- To open, push in the rear of the lid and release.
- To close, push the lid upwards and press in the rear of the lid to engage the latch.

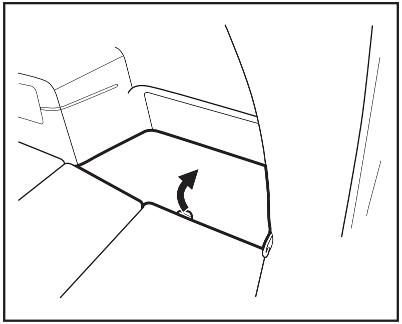
Underseat storage



The vehicle may have a front passenger seat storage tray.

- To open, pull upwards on the end of the tray and slide forwards.
- To close, push the tray back under the seat to the original position.

Rear storage

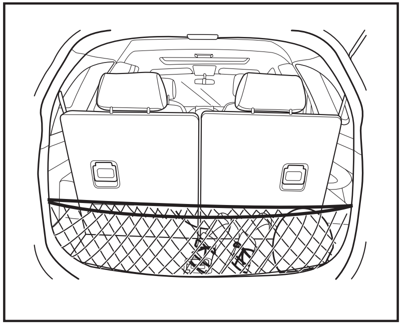


A floor side tray is located on the side of the rear load area.

- To open, pull the lid upwards.

Additional storage features

Cargo net



The vehicle may have a cargo net to store small loads.

To install the net:

- Attach the two upper loops to both anchors on the back panel.
- Attach the two net hooks in the metal rings, at both lower corners of the floor.

Instruments and controls

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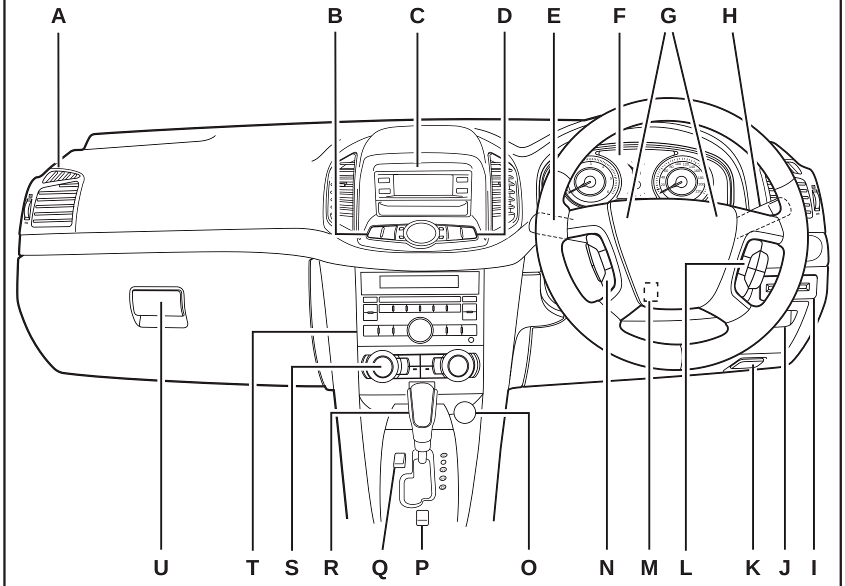
Instrument panel overview



A.	Side vent outlet	145
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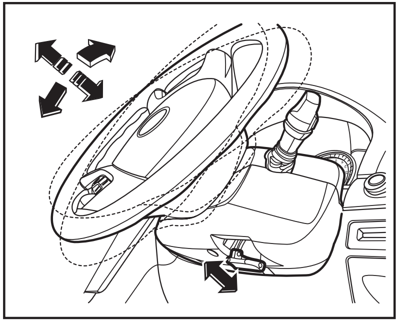
Controls

Steering wheel adjustment

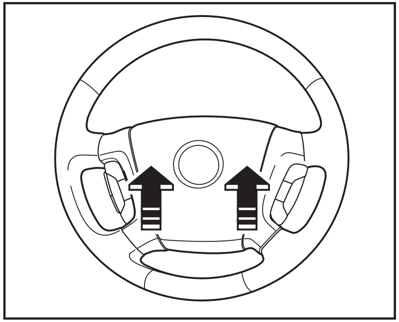
⚠Warning

Do not attempt to adjust the steering wheel while driving.



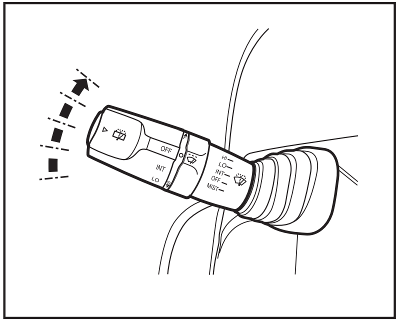
1. To unlock, move the lever down.
2. To adjust, move the steering wheel up, down, closer or away.
3. To lock, move the lever up. Ensure the steering wheel is locked in position before driving.

Horn



Press the horn pad on either side.

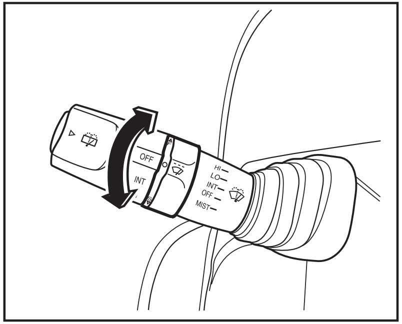
Windscreen wipers/washers



The wipers/washers operate with the ignition key in the **ON** or **ACC** positions:

MIST: For a single wipe, move the lever downwards and release it.

OFF: Wipers off.



INT: Move the lever up one level for intermittent wipes.

Rotate the collar up for more frequent wipes, or down for less frequent wipes.

Note

The intermittent wiper frequency is increased as vehicle speed increases.

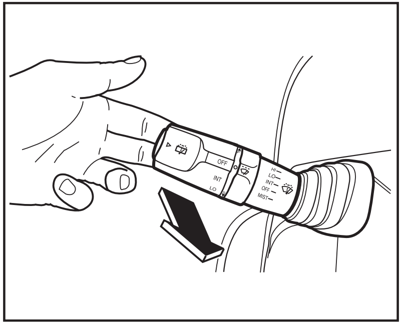
LO: Move the lever up two levels for a continuous slow speed wipe.

HI: Move the lever up three levels for a continuous fast speed wipe.

Note
The vehicle may have an automatic lamp switch.

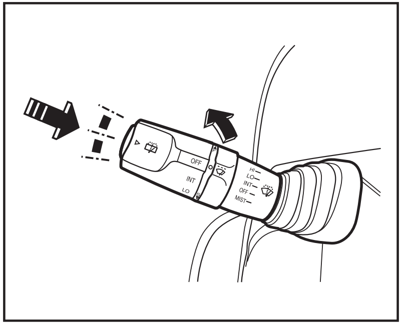
If the wipers are turned on when the lamp switch is in the **AUTO** position, the headlamps will turn on automatically after eight wipes.

Washer fluid



- Pull the lever towards the rear of the vehicle.
- Washer fluid is sprayed onto the windscreen.
- The wipers will operate for three cycles or until the lever is released.

Rear wiper and washer



Rotate the end of the lever towards the front of the vehicle.

To spray washer fluid onto the rear windscreen, push the button on the end of the lever.

OFF: Off.

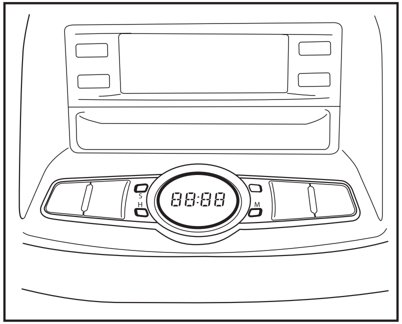
INT: Intermittent operation.

LO: Continuous operation.

Note

- Do not operate the wipers on dry glass.
- Clear the wipers of any snow or ice before switching them on.
- The rear wiper comes on when the front wipers are on and reverse gear is engaged.

Clock



When the ignition key is turned to **ON** or **ACC**, the digital clock displays the time.

The digital clock has three adjusting buttons.

H: hour button

- To advance 1 hour, press **H**.
- To advance more than 1 hour, press and hold **H** until the desired hour is reached.

M: minute button

- To advance 1 minute, press **M**.
- To advance more than 1 minute, press and hold **M** until the desired minute is reached.

S: set button

- To reset the time to the nearest hour, press **S**.

  Example:

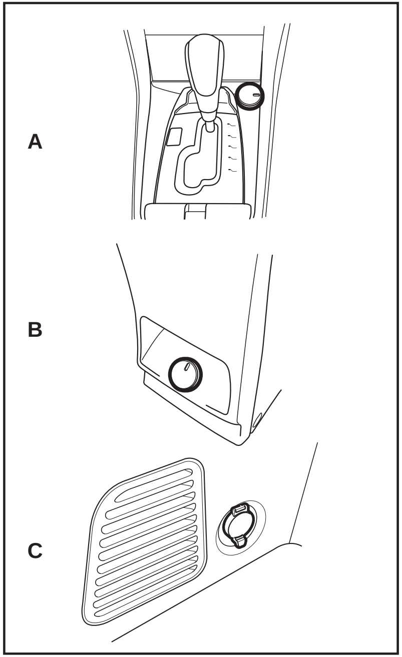
  - If pressing **S** when the time is between 8:00 and 8.29, the display will reset to 8:00.
  - If pressing **S** when the time is between 8:30 and 8:59, the display will reset to 9:00.
- If the power supply to the clock is interrupted, the clock will need to be reset.

Power outlets

The centre console power sockets operate with the ignition key in the **ON** or **ACC** positions.

The rear load area power socket operates at all times, when the ignition key is turned on or off.

See Retained accessory power on page 151.



A power socket is located in front of the shift lever (A), on the rear of the centre console (B) and on the passenger side of the load area (C).

Connecting a device

1. Flip the socket cover open.
2. Follow the installation instructions that are included with the device.
3. Cover the socket with the protective cap when not in use.

   These circuits are protected by a fuse and have a maximum current load of 10 amps.

Caution

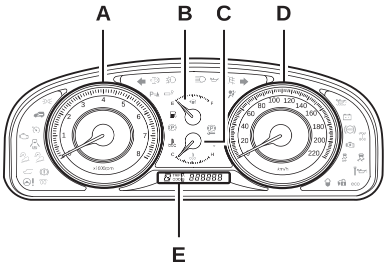
When using all accessory power sockets, the total maximum electrical load must not exceed 10 amps at 12 volts.

Always switch off any electrical equipment when not in use.

Leaving electrical equipment on for extended periods with the engine off will drain the battery.

Warning lights, gauges and indicators

Instrument panel



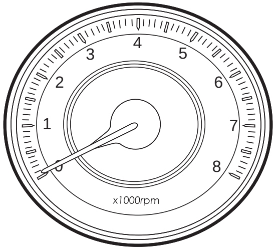
A. Tachometer
B. Fuel gauge
C. Engine coolant temperature gauge
D. Speedometer
E. Odometer and tripmeter

Tachometer

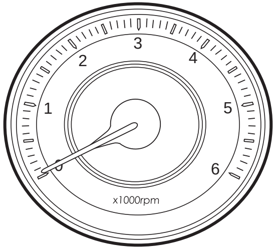
Tachometer (A), shows engine speed in thousands of revolutions per minute (RPM).

The red zone indicates critical engine speed.

> **⚠Warning**
>
> Do not operate the vehicle with the tachometer needle in the red zone. Doing so continually will lead to serious engine damage.



Tachometer gauge (petrol) shown



Tachometer gauge (diesel) shown

Fuel gauge

The fuel gauge (B), shows the level of fuel in the fuel tank when the ignition key is turned to **ON**. See Fuel on page 174 and Capacities on page 241.

(**E** = empty, **F** = full)

Note

- The arrow on the fuel gauge symbol indicates the side of the vehicle the fuel door is on.
- Do not let the tank run empty as this may cause damage to the catalytic converter.
- If diesel engines run dry, the fuel system must be bled. See Diesel fuel filter on page 203.

Engine coolant temperature gauge

The engine coolant temperature gauge (C), shows the temperature of the engine coolant when the ignition key is turned to **ON**.

(**C** = cold, **H** = hot)

The gauge reading can move towards **H** under the following conditions:

- Stop-start driving
- High speed driving in warm weather
- Hill climbing
- Towing

This is normal.

⚠Warning

Do not continue driving with the temperature gauge needle in the red area. The engine is too hot.

Continued operation of an overheated engine will result in severe engine damage. See Engine overheating on page 196.

Speedometer

The speedometer (D), shows vehicle speed in kilometres per hour (km/h).

Odometer and tripmeter

Odometer and tripmeter (E):

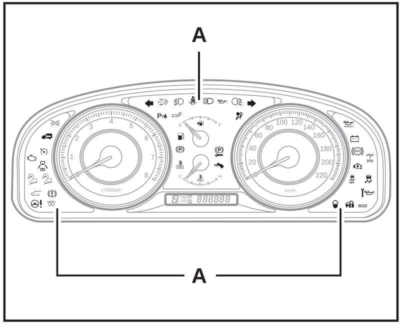
The odometer records the distance travelled since the vehicle was built.

The tripmeter records the distance travelled on a journey.

- Two different trips (TRIP A and TRIP B) can be recorded at the same time.
- The reset button is located at the lower right of the instrument panel.
- To change the display between, TRIP A and TRIP B, turn the ignition key to **ON** and push the tripmeter reset button.

  Press and hold to reset to zero.

Control indicators



The following warning lights and reminders (A) may appear on the instrument panel.

They show as illuminated icons and/or animations.

A chime sounds with most warning lights and reminders.

Driver's seat belt reminder light

- When the ignition key is turned to **ON**, illuminates.

If the seat belt is not fastened after the engine has been started:

- The light will flash for approximately 90 seconds, then stay illuminated until the driver's seat belt is fastened.
- When the vehicle speed is above 22 km/h, the light will flash again and a chime will sound for approximately 90 seconds.

  The light will stay illuminated until the driver's seat belt is fastened.

If the driver's seat belt is buckled, neither the chime or the light will illuminate.

Front passenger's seat belt reminder

The vehicle may have a front passenger seat belt reminder located on the centre of the dashboard.

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- The light extinguishes if the front passenger seat is not occupied.
- If the front passenger seat is occupied, the light remains on until the front passenger's seat belt is fastened.

Battery warning light

- When the ignition key is turned to **ON**, 🔋 illuminates for approximately 4 seconds.
- If the light illuminates when driving, contact a Holden Dealer.

Airbag and Supplemental Restraint System (SRS) light

- When the ignition key is turned to **ON**, flashes several times.

If the lamp:

- Does not flash
- Stays on when the ignition key is turned to **ON**
- Stays on after several flashes
- Flashes while driving
- Remains on while driving

  The airbag system or seat belt pretensioner system may not function correctly, especially in an accident.

  Contact a Holden Dealer immediately.

Malfunction indicator lamp

illuminates:

- When the ignition key is turned to **ON**:

  If the light remains on or illuminates while driving, there may be a malfunction in the emission control system. Contact a Holden Dealer.
- To indicate that there is a malfunction in the Diesel Particle Filter (DPF). Contact a Holden Dealer.
- See Emission control system on page 185.

⚠Warning

If you keep driving the vehicle with the MIL illuminated, after a while, the emission control system may not work as well, fuel economy may not be as efficient and the engine may not run as smoothly. This could lead to costly repairs.

Service Vehicle Soon (SVS) light

- When the ignition key is turned to **ON**, 🚗 illuminates for approximately 4 seconds.
- If the light remains on, contact a Holden Dealer.

> **⚠Warning**
>
> If you keep driving the vehicle while the SVS light is on, damage may result in the non-emission related components or related sub systems. This could lead to costly repairs.

Brake warning light

- When the ignition key is turned to **ON**, (!) illuminates for approximately 4 seconds.
- If the light remains on or illuminates, there is a brake problem. Contact a Holden Dealer.

> **⚠Warning**
>
> Driving while (!) is on may cause injury to yourself and others. Have the brake system checked immediately if this occurs.

Park brake light

- (P) illuminates when the park brake is applied or briefly when the ignition key is turned to **ON**.
- If (P) does not illuminate, contact a Holden Dealer.
- If (P) flashes after the park brake is released or while driving, contact a Holden Dealer.

Press brake pedal light

If the brake pedal is not applied when the EPB is released:

- A chime will sound
- 🦶 will illuminate
- See Electric Park Brake (EPB) on page 161.

Park brake warning light

- When the ignition key is turned to **ON**, Ⓟ illuminates for a short time.
- If Ⓟ does not come on or illuminates while driving, contact a Holden Dealer.

Antilock Brake System (ABS) light

- When the ignition key is turned to **ON**, (ABS) illuminates for approximately 4 seconds.

If the light:

- Does not flash or stays on when the ignition key is turned to **ON**
- Stays on after several flashes
- Flashes while driving
- Stays on continuously while driving

  Carefully stop the vehicle and turn off the engine.
- If the light remains on while driving, contact a Holden Dealer immediately.

Note

- The vehicle's brakes will still operate but without the assistance of the ABS.
- See Antilock Brake System (ABS) on page 160.

Shift select light

- illuminates to show the position of the shift lever.
- See Automatic transmission on page 155.

All Wheel Drive system (AWD) light

The vehicle may have an AWD system.

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- The light flashes when the AWD system is temporarily disabled.
- If the light remains on, contact a Holden Dealer.
- See Drive systems on page 159.

Descent Control System (DCS) light

- illuminates green on the instrument panel when the DCS is selected.
- The green light flashes while DCS is active.
- The amber light indicates the DCS is not ready or there is a malfunction in the system. Contact a Holden Dealer.
- See Descent Control System (DCS) on page 165.

Speed Sensitive Power Steering (SSPS) light

- When the ignition key is turned to **ON**, ! illuminates for approximately 4 seconds.

If the light:

- Does not illuminate
- Does not extinguish
- Illuminates while driving

  Contact a Holden Dealer as soon as possible.
- See Speed Sensitive Power Steering (SSPS) on page 150.

Park Assist (PA) light

The vehicle may have PA.

- When the ignition key is turned to **ON**, **P** illuminates for approximately 4 seconds.
- If the light illuminates while driving, contact a Holden Dealer.

When a trailer lighting plug is connected to the vehicle:

- PA will be deactivated.
- The light will illuminate on the instrument panel.
- PA will activate again when the plug is removed.

Electronic Stability Control (ESC) light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- If the light flashes while driving, the ESC is actively helping the vehicle with road grip and stability.
- If the light illuminates or does not extinguish while driving, contact a Holden Dealer immediately.

Electronic Stability Control (ESC) off light

- When the ignition key is turned to **ON**, OFF illuminates for approximately 4 seconds.

To turn the ESC off:

1. Press on the dashboard.

   illuminates on the instrument panel.

For more information, see Electronic Stability Control (ESC) on page 163.

Engine coolant temperature light

- When the ignition key is turned to **ON**, 🌡 illuminates for approximately 4 seconds.

If the light illuminates while driving, the engine coolant temperature is excessively hot:

- Stop the vehicle as soon as it is safe to do so.
- See Engine overheating on page 196.
- If the light remains on, contact a Holden Dealer.

> **⚠Warning**
>
> Do not continue driving with the temperature gauge needle in the red area. The engine is too hot.
>
> Continued operation of an overheated engine will result in severe engine damage. See Engine overheating on page 196.

Preheating system light

(Diesel engines)

- When the ignition key is turned to **ON**, ꝏ illuminates and will stay illuminated until the glow plugs are sufficiently warmed.
- The preheating system switches on only if the outside temperature is low.
- See Starting the engine on page 152.

Diesel particle filter (DPF) light

(Diesel engines)

▨ illuminates or flashes yellow.

The diesel particle filter requires cleaning. See Diesel Particle Filter (DPF) on page 186.

Illuminates

The diesel particle filter requires cleaning. Start the cleaning process as soon as possible. See Cleaning process on page 187.

Flashes

The previous cleaning cycles have been interrupted prior to completion. Start the cleaning process immediately to avoid damage to the engine. See Cleaning process on page 187.

The light extinguishes as soon as cleaning is complete.

Engine oil pressure light

- When the ignition key is turned to **ON**, 🛢 illuminates for approximately 4 seconds.

If the light illuminates while driving:

- The oil pressure is dangerously low.

  Stop the vehicle as soon as possible and check the engine oil level.
- See Engine oil on page 192.
- Do not drive the vehicle with the light illuminated. Contact a Holden Dealer.

Engine oil level light

- When the ignition key is turned to **ON**, 🛢 illuminates for approximately 4 seconds.

If the light illuminates while driving:

- The oil level is dangerously low.

  Stop the vehicle as soon as possible and check the engine oil level.
- See Engine oil on page 192.
- Do not drive the vehicle with the light illuminated. Contact a Holden Dealer.

Change engine oil light

- When the ignition key is turned to **ON**, 🔧🛢 illuminates for approximately 4 seconds.
- If the light does not come on, contact a Holden Dealer.
- If the light illuminates continuously, an engine oil and filter change is required. Contact a Holden Dealer.
- See Engine oil life system on page 236.

Low fuel light

- When the ignition key is turned to **ON**, ⛽ illuminates for approximately 4 seconds.
- The light illuminates when the fuel tank is approaching empty.

  Add fuel as soon as possible.
- If diesel engines run empty, the fuel system must be bled. See Diesel fuel system bleeding on page 204.
- See Fuel types on page 176.

Fuel economy light

- The eco light illuminates when eco on the centre console is pressed.
- See Fuel economy mode on page 157.

Water in fuel filter light

(Diesel engines)

When the water level in the fuel filter is excessive, 💧 illuminates on the instrument panel:

- Contact a Holden Dealer immediately to have the fuel filter drained.
- The fuel filter will be drained when the vehicle is serviced. Refer to the Service/Warranty Booklet.

Immobiliser light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- If the light remains on, contact a Holden Dealer.

Reduced engine power light

illuminates when illuminates.

1. Stop the vehicle as soon as it is safe to do so.
2. Switch the ignition off then restart after 10 seconds.

   The vehicle may be driven at a reduced speed.
3. Contact a Holden Dealer immediately.

High beam light

- illuminates on the instrument panel when the headlamp high beam lamps are in use.
- See High/low beam on page 79.

Front fog lamp light

The vehicle may have front fog lamps.

- illuminates on the instrument panel when the lamps are in use.
- See Front fog lamps on page 80.

Rear fog lamp light

- illuminates on the instrument panel when the lamps are in use.
- See Rear fog lamps on page 81.

Turn signal light

- ⬅ or ➡ flashes on the instrument panel when the lamps are in use.
- See Turn signals on page 80.
- See Hazard warning flasher on page 79.

Cruise control light

- illuminates on the instrument panel when the cruise control has been set.
- The light extinguishes when cruise control is turned off.
- See Cruise control on page 167.

Door ajar light

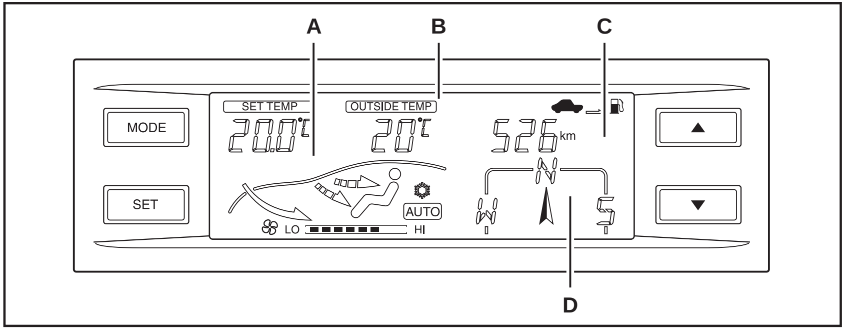
- illuminates when a door is open or not securely latched.

Tailgate ajar light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- The light illuminates when the tailgate or the tailgate window is open or not securely latched.

Information displays

Graphic Information Display (GID)



The vehicle may have a GID.

When the ignition key is turned to **ON**, the following are displayed:

A. Climate control display

B. Outside temperature display

C. Trip computer display

D. Compass display

Climate control display

SET TEMP displays the desired temperature inside the passenger compartment.

Outside temperature

OUTSIDE TEMP may not display the current temperature until the vehicle has reached a speed of at least 30 km/h for a minimum of 3 minutes.

Trip computer

Each time **MODE** is pressed the trip computer displays changes in the following sequence:

1. Driving distance for remaining fuel
2. Average speed
3. Driving time
4. Average fuel consumption

To reset average speed, driving time or average fuel consumption, press **MODE** for more than 2 seconds.

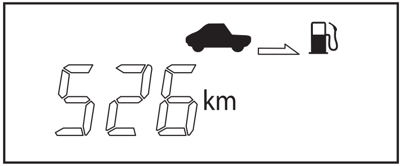
To change the display from km to miles or from °F to °C:

1. Press **SET** for more than 2 seconds.

   The temperature display will refresh.
2. Press **SET** again.

   The distance display will refresh.
3. Press ▲ and ▼ to change km, mile or °F, °C.

Driving distance for remaining fuel

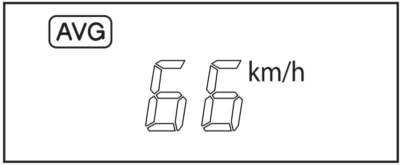


- Estimates driving distance to an empty fuel tank from the current fuel level.
- When the distance to empty is less than 50 km, --- will be displayed.

The driving distance for remaining fuel may differ depending on:

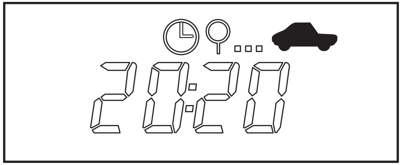
- Driving conditions
- Driving pattern
- Vehicle speed

Average speed



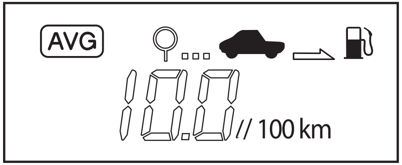
- Shows the average speed of the vehicle.
- To reset the average speed to zero, press **MODE** for more than 2 seconds.

Driving time



- Shows the total drive time.
- To reset the driving time to zero, press **MODE** for more than 2 seconds.
- The display will revert to 0:00 after 99:59 is displayed.

Average fuel consumption

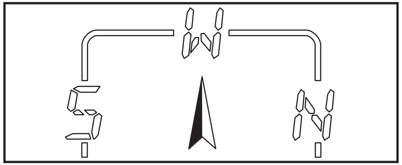


- Calculates the average fuel consumption from the total fuel used and the distance since the last average fuel consumption reset.
- To reset the average fuel consumption to zero, press **MODE** for more than 2 seconds.
- Average fuel consumption is reset to 10:0 if the battery is disconnected.

Average fuel consumption may differ from the actual average fuel consumption depending on:

- Driving conditions
- Driving pattern
- Vehicle speed

Compass



- Eight directions are displayed (N, NE, E, SE, S, SW, W or NW).
- The direction will be displayed when the ignition key is turned to **ON**.

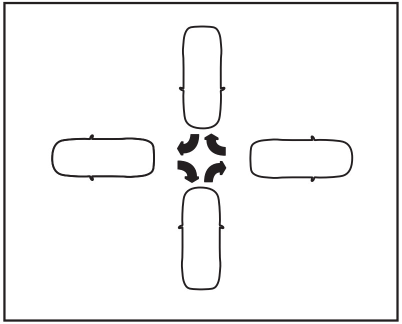
Compass calibration

Calibrate the compass the first time it is used or when the battery has been disconnected.

1. Press **MODE** and **SET** simultaneously for more than 2 seconds.

   The compass display will flash.
2. Drive the vehicle slowly in one complete circle within 90 seconds.

   When calibration is complete the compass display stops flashing.



3. If there is not enough space to turn the vehicle in one complete circle, follow the diagram for an alternate method.

Note

- The vehicle can be turned in any direction, left or right.
- If the compass display continues to flash, drive the vehicle slowly in a circle again until it stops flashing.

Cancelling compass calibration

- Press **SET** twice.
- If the vehicle was not turned within 90 seconds after calibration was started, compass calibration will be cancelled.

Deflection calibration

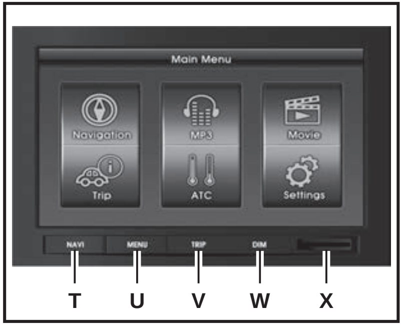
The deflection calibration can be adjusted to compensate for any deviation from true north.

1. Press **MODE** and **SET** simultaneously for more than 2 seconds.

   The compass display will flash.
2. Press **SET** to move to deflection calibration mode.
3. Press ▲ and ▼ to adjust the deflection calibration value.

Colour Information Display (CID)

The vehicle may have a CID.



T. NAVI: Navigation

U. MENU: Main menu

V. TRIP: Driving information

W. DIM: Adjust display brightness

X. SD card slot

Note

- Press, refers to hard keys.
- Touch, refers to screen keys.

Main menu

Press **MENU** (U) or touch **Navigation** to access all navigation system functions.

Screen buttons will be active when a function is available and disabled when they are unavailable. See Getting started on page 106.

Trip

Press **TRIP** (V) or touch **Trip** to display, Average Vehicle Speed, Average Fuel Consumption, Range for Remaining Fuel, Driving Time, compass and date. See Trip computer on page 76.

Dim

Press **DIM** (W) to adjust the screen brightness. See Screen brightness on page 73.

SD cards

- Insert an SD card into the slot (X) to update map software, listen to MP3 audio files and view movies.
- Do not insert an SD card with an irregular shape into the SD card slot (X).
- To remove the SD card, press the card in and release. It will eject automatically.
- With a mixed mode SD card (combination of audio, movie and data) only the audio or movie files are recognised and are played depending on the selected mode.

MP3

Touch **MP3** to listen to audio files. See MP3 player on page 98.

Movie

Touch **Movie** to view movies on the system screen. See Movie player on page 100.

Screen brightness

1. Press **DIM** (W).

   The screen will dim to 50% of the brightness.
2. Press again to return the display screen to full brightness.
3. Press **DIM** (W) for 3 seconds to turn the display screen off.

   Note

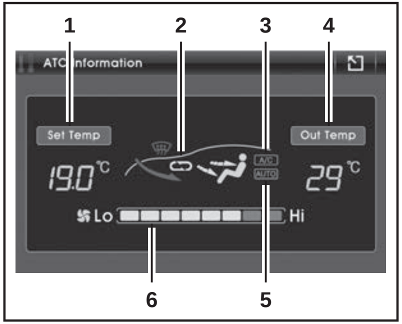
   - The navigation system location positioning continues to function.
   - When any button is pressed, the display screen turns back on.
   - The screen brightness is automatically adjusted, depending on the amount of external light.

Air Temperature Control (ATC)

To view ATC information:

1. Press **MENU** (U).
2. Touch **ATC**.

   Alternatively press ⏻ (K) on the audio system controls for 2 seconds.

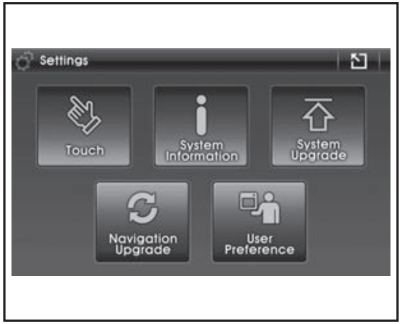

1
2
3
4
ATC Information
Set Temp
Out Temp
19.0 °C
A/C
AUTO
29 °C
Lo
Hi
6
5

1. Interior temperature setting
2. Direction of airflow
3. Air conditioning (on/off)
4. Outside temperature
5. AUTO (on/off)
6. Fan speed

Settings

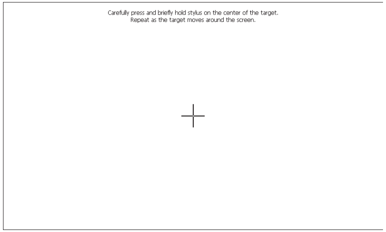
From the Main Menu:

1. Touch **Settings** to display:


Settings
Touch
System Information
System Upgrade
Navigation Upgrade
User Preference

   - Touch screen
   - System information
   - System upgrade
   - Navigation upgrade
   - User preference
2. Touch ↩ to exit a selected screen.

Touch screen



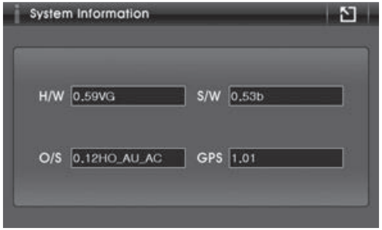
Carefully press and briefly hold stylus on the center of the target.
Repeat as the target moves around the screen.

Calibrate the touch screen if it is not responding accurately to your taps.

Note To avoid damaging the screen, do not touch the surface with anything other than your finger.

1. Touch **Touch**.
2. Tap the centre of the target.
3. When the target moves to another position, tap the new target.
4. Repeat each time to complete the calibration process.
5. Touch the centre of the screen to save.

System information



H/W 0.59VG
S/W 0.53b
O/S 0.12HO_AU_AC
GPS 1.01

Displays the current version of the system.

H/W: Hardware

S/W: Software

O/S: Operating system

GPS: GPS firmware

System upgrade

This upgrade is intended for dealer use only. Contact a Holden Dealer for further information.

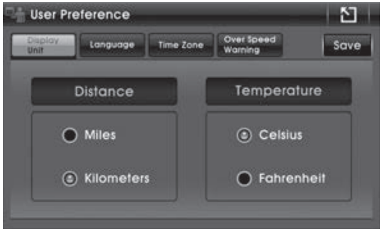
Navigation upgrade

For availability of navigation upgrades, contact a Holden Dealer for further information.

User preference

Adjust the display unit, language, time zone and over speed warning.

Display unit:


User Preference
Display Unit
Language
Time Zone
Over Speed Warning
Save
Distance
Temperature
○ Miles
⦿ Kilometers
⦿ Celsius
○ Fahrenheit

1. Select a unit of measurement.

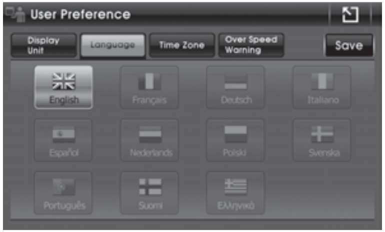
   Distance: Miles or kilometres

   Temperature: Celsius or Fahrenheit

   The option selected is indicated by ⦿.

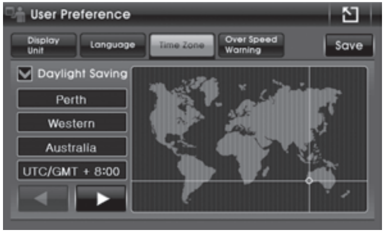
2. Touch **Save**.

Language:


User Preference
Display Unit
Language
Time Zone
Over Speed Warning
Save
English
Français
Deutsch
Italiano
Español
Nederlands
Polski
Svenska
Português
Suomi
Ελληνικά

1. English is the currently available language for displayed text and voice commands.
2. Touch **Save**.

Time zone:

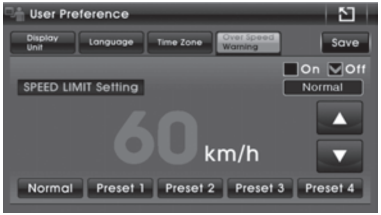

User Preference
Display Unit
Language
Time Zone
Over Speed Warning
Save
☑ Daylight Saving
Perth
Western
Australia
UTC/GMT + 8:00
◄
►

1. Touch ◄ or ► to select the time zone.
2. Check **Daylight Saving** if it is in effect.

   Note
   Daylight saving is not automatically adjusted.

3. Touch **Save**.

Over speed warning:


User Preference
Display Unit
Language
Time Zone
Over Speed Warning
Save
☐ On ☑ Off
SPEED LIMIT Setting
Normal
▲
▼
60 km/h
Normal
Preset 1
Preset 2
Preset 3
Preset 4

Set up to five different speed limits.

1. Touch **Normal** or **Presets 1-4**.
2. Touch ▲ or ▼.
3. Touch **Save**.

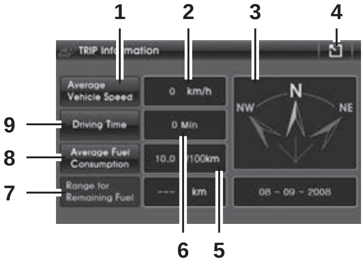
   When the limit is reached, a warning chime sounds.

   To turn the warning chime off, check the **Off** box.

Trip computer

The vehicle may have a trip computer.

1. Press **TRIP** (V) or press **MENU** (U). See Colour Information Display (CID) on page 72.
2. Touch **Trip**.


1
2
3
4
TRIP Information
Average Vehicle Speed
0 km/h
Driving Time
0 Min
Average Fuel Consumption
10.0 l/100km
Range for Remaining Fuel
--- km
N
NW
NE
08 - 09 - 2008
9
8
7
6
5

1. Average vehicle speed reset
2. Average vehicle speed
3. Display compass
4. Return to main menu
5. Average fuel consumption
6. Driving time
7. Range for remaining fuel
8. Average fuel consumption reset
9. Driving time reset

Note

- Select reset when starting a trip or route that you want to record.
- Touch and hold the reset buttons to reset.

  A popup will be displayed.

  Touch **Yes** to reset or **No** to cancel.

Average speed

Shows the average vehicle speed, since the last average speed reset.

Displayed in km/h over the last 10 hours of driving.

Compass

Displays the vehicle's driving direction (N, NE, E, SE, S, SW, W, NW).

Average fuel consumption

Calculates the average fuel consumption from the total fuel used and the distance since the last average fuel consumption reset.

Average fuel consumption may differ from the actual average fuel consumption depending on:

- Driving conditions
- Driving pattern
- Vehicle speed

Displayed in l/100 km.

Driving time

Shows the total drive time.

Range for remaining fuel

Estimates driving distance to an empty tank from the current fuel level.

- When the distance to empty is less than 50 km, --- will be displayed.
- For the trip computer to recognise additions of fuel, more than 4 litres must be added.
- Range for remaining fuel cannot be reset.

The driving distance for remaining fuel may differ depending on:

- Driving conditions
- Driving pattern
- Vehicle speed

Calendar

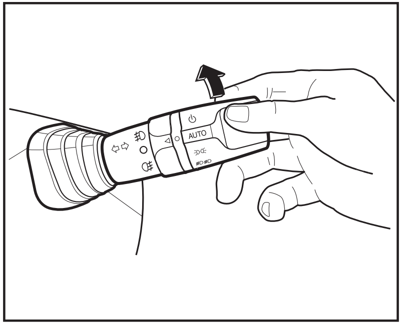
Displays the current date (dd-mm-yyyy).

Lighting

Exterior lighting 78
Interior lighting 82

Exterior lighting

Lamp control



⏻: All lamps are off.

The switch will return to the **AUTO** position once released.

To turn the automatic lamp control on, turn to ⏻ again.

AUTO: Parking lamps and headlamps will turn on automatically depending on the outside light.

≡◗◖≡: Parking lamps, number plate lamps and instrument panel lights illuminate.

The headlamps will not come on.

≡◗ ≣◗: Parking lamps, number plate lamps, instrument panel lights and headlamps illuminate.

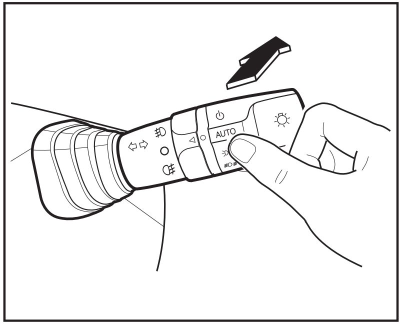
Note

- When the windscreen wipers are on and the lamp control is in the **AUTO** position, the headlamps will turn on automatically after eight wipes.
- Do not cover the sunlight sensor. See Instrument panel overview on page 53.

Headlamps on reminder

If opening the driver’s door with the ignition in **LOCK** and the lamp control in ≡◗◖≡ or ≡◗ ≣◗ position, a warning chime will sound.

High/low beam

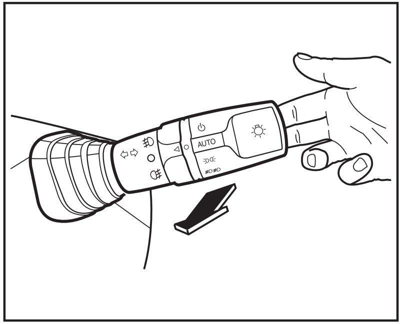


To activate high beam:

- With the headlamps on, push the lever towards the front of vehicle.
- The high beam indicator light ≣D illuminates on the instrument panel.

To return to low beam:

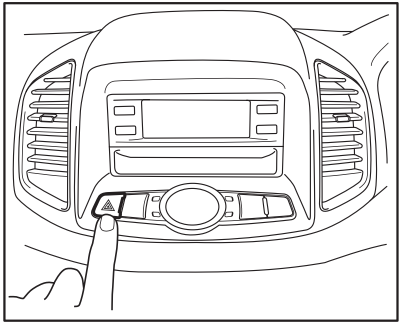
- Pull the lever toward the rear of the vehicle.



To flash the high beam lamps:

- Pull the lever towards the rear of the vehicle.
- The high beam lamps can be flashed even if the headlamps are off.
- The lamps remain in high beam as long as the lever is held.

Hazard warning flasher



Use the hazard warning flasher if the vehicle becomes a traffic hazard, day or night.

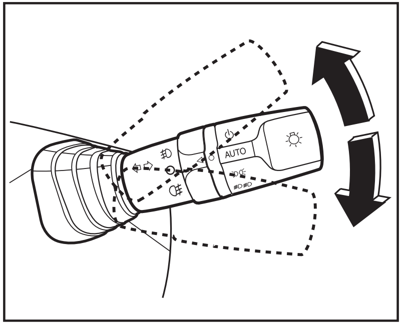
Press ⚠ to turn the hazard warning flasher on or off, when the ignition is in any position:

- Arrows on the instrument panel flash when the lamps are in operation.
- All six external signal lamps flash continuously.

Note

- Avoid stopping on the roadway if possible.
- Using hazard warning flashers while the vehicle is moving, is illegal in some States.

Turn signals



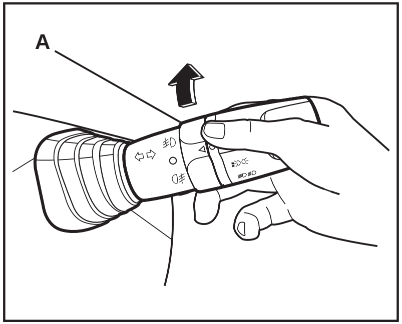
- Push the lever in the direction the steering wheel is turned.
- To signal a lane change, push the lever part way in the direction of the turn and hold it.

  The turn signals will flash three times.

  The lever will return to its original position when released.
- An arrow on the instrument panel flashes when the lamps are in operation.

Front fog lamps

The vehicle may have front fog lamps.



The front fog lamps provide extra illumination to the sides of the road and improve visibility in fog or snow.

To switch the front fog lamps on:

1. Turn the lamp control to the ≡D◁≡ or ≡D ≡D position.
2. Rotate the ring (A) to the ≢D position.

   The ring will return to its original position when released.

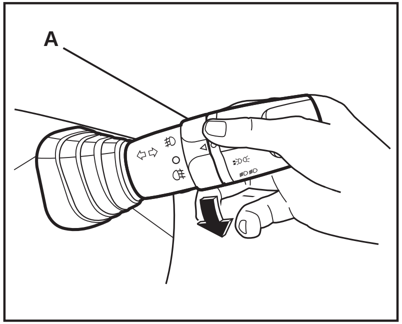
The fog lamp indicator illuminates on the instrument panel.

To switch the front fog lamps off:

- Rotate the ring (A) to the position again.

  Note
  The fog lamps operate only when the parking lamps or headlamps are on.

Rear fog lamps



The rear fog lamps provide extra illumination at the rear of the vehicle, increasing the visibility of the vehicle to other drivers in fog or snow.

To switch the rear fog lamps on:

1. Turn the lamp control to the position.
2. Rotate the ring (A) to the position.

   The ring will return to its original position when released.

The fog lamp indicator illuminates on the instrument panel.

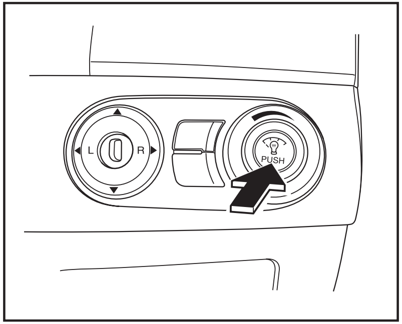
To switch the rear fog lamps off:

- Rotate the ring (A) to the position again.

  Note
  The fog lamps operate only when the parking lamps or headlamps are on.

Interior lighting

Instrument panel illumination



To adjust the instrument lighting brightness:

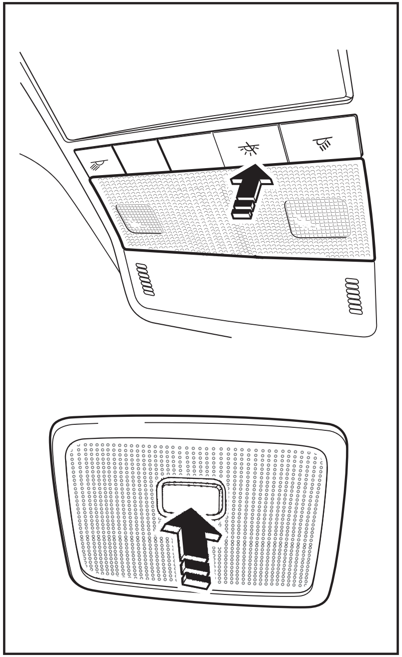
1. Rotate the lever to ⊃◯⊂ or ≣D ≣D.
2. Press **PUSH** to extract the button.

   To dim, rotate clockwise.

   To brighten, rotate anticlockwise.
3. Press **PUSH** to retract the button.

Note
When opening the driver's door or pressing ≋ on the key, the instrument panel lights illuminate automatically. They remain illuminated for approximately 30 seconds or until the ignition is turned to **ACC**.

Interior lamps

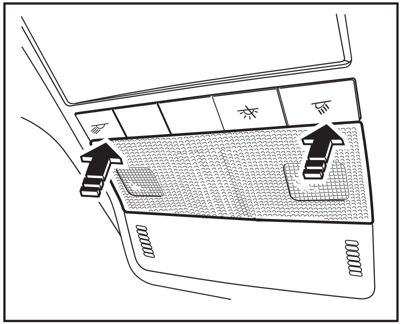


The interior lamps are located in the front and centre of the roof, and may be located in the rear of the roof.

- Press ☼.

  The lamp illuminates until ☼ is pressed again.
- The centre and rear lamps illuminate when a door or the tailgate is opened.
- If a door or the tailgate stays open, the lamps extinguish after approximately 10 minutes.
- When all doors and the tailgate are closed, the lamps gradually dim and switch off after approximately 10 seconds.

Dome lamps

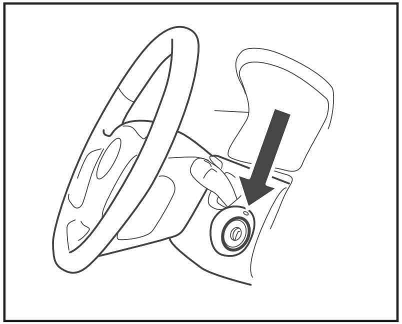


The dome lamps are located in the centre-front of the roof, between the sun visors.

1. Press ◸ or ◹.

   The passenger or driver front lamp illuminates.
2. Press ◸ or ◹ again to switch the lamp off.

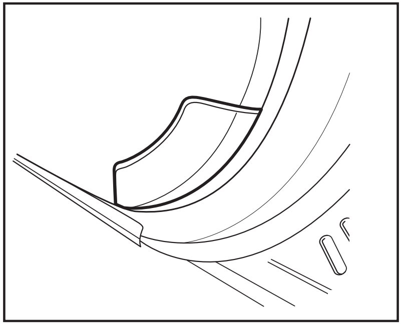
Ignition lock/switch lamp



- The ignition lock/switch lamp illuminates when a door is opened.

  The lamp remains on if the door is left open.
- When the door is closed the lamp remains on for approximately 7 seconds, then switches off.

Front door step lamp



- The front door step lamp illuminates when the front door is opened.

  The lamp remains on if the door is left open.
- When the front door is closed the lamp remains on for approximately 10 seconds, then dims to off.

Infotainment system

Introduction 85
Radio 89
CD player....................................91
Auxiliary devices..........................94
USB port.....................................96
Navigation 102
Bluetooth® 135

Introduction

General information

Do the following before driving:

- Read the infotainment system section to become familiar with the functions.
- Become familiar with the buttons.
- Set up the audio by presetting favourite stations, setting the tone and adjusting the speaker settings.
- Set up the navigation features before driving, such as entering an address or a preset destination or delete information you may have entered using various options.

About the system

- The audio system can be operated with the ignition key in the **ACC** or **ON** positions.

The system may include navigation functions.

⚠Danger

Taking your eyes off the road for too long or too often while using the navigation system could cause a crash resulting in injury or death to yourself or others. Focus your attention on driving.

⚠Warning

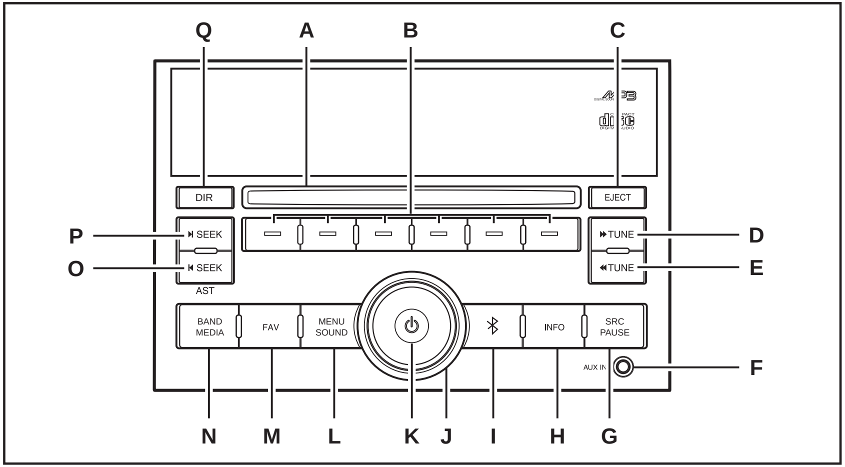
When driving the vehicle, be sure to keep the volume of the unit set low enough to hear sounds from outside the vehicle (e.g. road and traffic conditions).

Caution

Do not place beverages close to the audio system. The mechanism may be damaged if they spill.

Do not strike or allow anything to impact the audio system as damage to the system mechanisms could occur.

Overview


Q
A
B
C
DIR
EJECT
P
SEEK
O
SEEK
AST
TUNE
D
TUNE
E
BAND
MEDIA
FAV
MENU
SOUND
INFO
SRC
PAUSE
AUX IN
F
N
M
L
K
J
I
H
G

A. CD slot

B. Function buttons

C. CD eject button

D. Tune button (radio)

Next button
(CD, AUX, USB, iPod®)

E. Tune button (radio)

Previous button
(CD, AUX, USB, iPod®)

F. Auxiliary input socket

G. Source/pause button
(CD, AUX, iPod®)

H. Information display button

I. Bluetooth® button

J. Volume and tone switch

K. Power/mute button

L. Menu/sound button
(radio, CD, AUX, USB, iPod®)

M. Favourite selection button (radio)

N. Band selection button (radio)

Band/media selection button
(radio, NAV)

O. Seek button (radio)

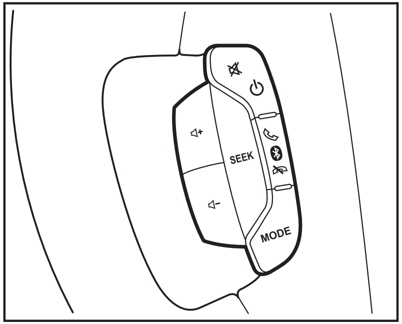
Next button
(CD, AUX, USB, iPod®)

P. Seek button (radio)

Previous button
(CD, AUX, USB, iPod®)

Q. Directory

Steering wheel remote controls



Power:

- Press ⏻ to turn the power on.
- Press ⏻ for more than 1 second to turn the power off.

Mute:

- Press 🔇 when the power is on.

Mode:

- Press **MODE** to select another audio source.

Volume:

- Pull 🔈+ to increase the volume.
- Pull 🔈− to decrease the volume.

Next radio station:

- Press **SEEK** for the next preset station. See Favourite memory preset on page 90.
- Press **SEEK** more than 1 second to search for the next strongest radio station.

Next track:

- Press **SEEK** to go to the next track.
- Press and hold **SEEK** to fast forward a track.

Operation

Power on

To turn the power on, do one of the following:

- Press ⏻ (K).
- Insert a CD.
- Press **BAND/MEDIA** (N).
- Press **SRC/PAUSE** (G).

Power off

- Press ⏻ (K) for more than 1 second.

Mute

- Press ⏻ (K) briefly.

Volume

- Rotate ⏻ (J).

Audio adjustment

Bass

1. Press **MENU/SOUND** (L) for more than 1 second.
2. Press (B) below **Bass** on the audio display screen.
3. Rotate ⏻ (J) to increase or decrease the bass.

Middle (midrange)

1. Press **MENU/SOUND** (L) for more than 1 second.
2. Press (B) below **Mid** on the audio display screen.
3. Rotate ⏻ (J) to increase or decrease the midrange.

Treble

1. Press **MENU/SOUND** (L) for more than 1 second.
2. Press (B) below **Treb** on the audio display screen.
3. Rotate ⏻ (J) to increase or decrease the treble.

Balance

Adjust the sound between the left and right speakers.

1. Press **MENU/SOUND** (L) for more than 1 second.
2. Press (B) below **BAL** on the audio display screen.
3. Rotate ⏻ (J) to adjust the balance.

Fader

Adjust the sound between the front and rear speakers.

1. Press **MENU/SOUND** (L) for more than 1 second.
2. Press (B) below **Fad** on the audio display screen.
3. Rotate ⏻ (J) to adjust the sound.

Preset EQ selection

Choose a preset sound equaliser setting.

1. Press **MENU/SOUND** (L) for more than 1 second.
2. Press (B) below **P-EQ** on the audio display screen.
3. Press (B) below the desired preset displayed on the audio display screen:

   Pop → Rock → Ctry → Voice → Jazz → Class →

To cancel the preset sound equaliser:

1. Press **MENU/SOUND** (L) for more than 1 second.
2. Press (B) below **P-EQ** on the audio display screen.
3. Press (B) below the highlighted preset displayed on the audio display screen.

   EQ: Manual is displayed.

Radio

General information

Radio reception

Frequency interference and static can occur during normal radio reception if items such as mobile phone chargers, vehicle convenience accessories and external electronic devices are plugged into the accessory power outlet.

If there is interference or static, unplug the item from the accessory power outlet.

AM-FM radio

AM band

The range for most AM stations is greater than for FM, especially at night.

The longer range can cause station frequencies to interfere with each other.

For better radio reception, most AM radio stations boost the power levels during the day and then reduce these levels at night.

Static can also occur when storms and power lines interfere with radio reception. When this happens, reduce the treble on the radio.

FM stereo band

Although the radio has a built-in electronic circuit that automatically works to reduce interference, some static can occur, especially around tall buildings or hills.

Radio mode selection

To select radio from another mode:

1. Press **BAND/MEDIA (**N).

   The band changes from AM to FM.

Manual tune up/down

Manually tune to a radio station:

1. Press ⏩ (D) or ⏪ (E) to tune to the next radio station.

Seek up/down

Seek a radio station automatically:

1. Press ⏮ (O) or ⏭ (P) to find the next available radio station.

Automatic tune up/down

Automatically seek for the next or previous radio station:

1. Press **BAND/MEDIA** (N) to either select the AM or FM band.
2. Press ⏮ (O) or ⏭ (P).

   The radio seeks for the previous or next strongest radio station in the selected band.

- The first sweep of the frequency band will search for the strongest, local stations.
- The second sweep will search all stations, including weaker stations.

Favourite memory preset

Store up to six favourite pages and up to 48, AM or FM stations:

1. Select a station.
2. Press **FAV** (M) to select the favourite page 1-6.
3. Press and hold a preset (B) below the station, on the audio display screen, for more than 1 second.

To change the number of favourite pages displayed:

1. Press **FAV** (M) for more than 2 seconds.
2. Press (B) below the audio display screen, for the desired number of favourite pages to be displayed.
3. Press **FAV** (M) to store.

Recall favourite preset

Listen to a stored station in the favourite preset memory:

1. Press **FAV** (M) to select the favourite page 1-6.
2. Press a preset (B) below the station, on the audio display screen.

Autostore function

Scan the entire band, select 12 stations with the best reception quality and store them in the autostore list:

1. Press **BAND/MEDIA** (N).
2. Press ⏮ (O) or ⏭ (P) for more than 1 second.

   AST Scanning... is displayed.

   Twelve stations will store automatically, six in each autostore page, A1 and A2.

Antenna

The antenna is incorporated in the rear window and driver side rear window.

The rear antenna is part of the heated rear window demister pattern.

Note

- Do not place stickers over the antenna pattern.
- Care must be taken not to damage the antenna pattern when cleaning the inside of the rear window.

CD player

General information

Caution

If a label is added to a CD, or more than one CD is inserted into the slot at a time or an attempt is made to play scratched or damaged CDs, the CD player could be damaged.

Use only CDs in good condition without any labels, load one CD only and keep the CD player and the loading slot free of foreign materials, liquids and debris.

If a description label is required, write on the top of the CD with a CD marking pen.

Caution

Avoid inserting any foreign objects into the slot of the player.

Failure to observe this may cause malfunction due to the precise mechanism of this unit.

MP3/WMA format

- CDs with extensions other than .mp3 or .wma may not play.
- Do not place standard audio and MP3/WMA files on one disc.
- Song title, artist name and album will be displayed when recorded using ID3 tags version 1 and 2.
- If creating folders, create a structure that makes it easy to find songs while driving.
- To conserve space on a disc, minimise the length of the file and folder names.
- Record onto CD-R discs.

CD-R format

Sound quality may be reduced due to:

- Method of recording
- Recording quality
- CD handling

Handling CDs

- Avoid leaving fingerprints on the CD when removing it.
- Store any CDs in their protective covers.
- Ensure that CDs are clean and dry before inserting.
- Protect CDs from heat and direct sunlight.

Audio system care

- Do not clean using cleaning fluid, alcohol or other solvents. Use only a damp cloth and wipe from the centre to the outer edge.
- Do not apply paint or colour to the audio system fascia.
- Do not dismantle the audio system. If a problem occurs, contact a Holden Dealer.

CD messages

If **Disc Error** appears on the audio display screen and/or the CD is ejected:

- The air temperature may be very hot or humidity may be high.
- The road being driven on may be very rough.
- The CD may be dirty, scratched, wet or upside down.
- The CD format may not be compatible. See MP3/WMA format on page 92.

- A problem may have occurred while burning the CD.
- A label may be caught in the CD player.

If a CD message remains, try a known playable CD.

If errors occur repeatedly and cannot be corrected, contact a Holden Dealer.

Playing a CD

When a CD is in the player, it will:

- Remain in the player when the ignition or the audio system is turned off
- Not begin playback when the ignition is turned on until the audio system is turned on
- Begin playback where it stopped, if it was the last selected audio source

Disc insert

1. Insert a CD into the CD slot (A) with the label facing up.

   The CD is pulled into the slot automatically.

   CDP appears on the display followed by **FILE CHECK**.

   Once playback begins, the track and track number appear on the display.

CD eject

1. Press **EJECT** (C).

   The disc is ejected.
2. Remove the disc.

Next/previous track

1. Press ⏩ (D) or ⏪ (E).

   The track number is displayed.

Fast forward/fast reverse

1. Press and hold ⏩ (D) or ⏪ (E).

Next/previous folder (MP3/WMA)

1. Press ⏮ (O) or ⏭ (P).

CD mode selection

1. With a CD in the player, press **SRC/PAUSE** (G), when in a different mode.

Pause

1. Press **SRC/PAUSE** (G) while a CD is playing.

   Pause is displayed.
2. Press **SRC/PAUSE** (G) again to begin playback.

Repeat

1. Press (B) below **RPT** on the audio display screen.

   The current track is repeated.
2. To cancel, press (B) below **RPT** again.

Change directories

1. Press **DIR** (Q) to change the current directory.
2. To cancel, press **DIR** (Q) again.

Random

1. Press (B) below **RDM** on the audio display screen.

   Tracks are played randomly.
2. To cancel, press (B) below **RDM** again.

Intro scan

1. Press (B) below **INT** on the audio display screen.

   Ten seconds of each track are played.
2. To cancel, press (B) below **INT** again.

All/directory mode (MP3/WMA)

Repeat, intro-scan and random functions operate in the current folder when all modes are active:

1. Press (B) below **ALL** on the audio display screen.

   DIR is displayed.
2. To cancel, press (B) below **DIR**.

ID3 tag information display (MP3/WMA)

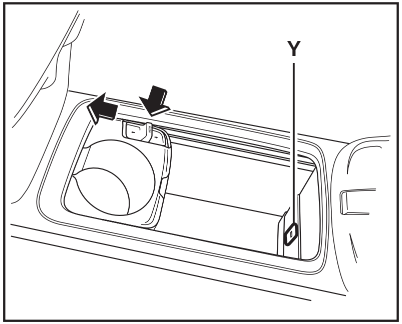
1. Press **INFO** (H).

   ID3 tag information for the current files is displayed.

Auxiliary devices

General information

- Devices able to be connected to the infotainment system are; iPod® devices, USB sticks and MP3 players.
- Connect using either the 3.5 mm AUX input socket (F), see Overview on page 86, or the USB port (Y).



The USB port is located below the front, centre cup holders.

- To open, push the lever down and slide rearwards.

⚠Warning

The AUX input socket (F) is not an audio output socket. Do not insert a headphones jack.

Connecting other devices can cause malfunction or damage the audio equipment.

Do not use any equipment that prevents safe driving.

AUX mode selection

To select AUX mode:

1. Connect a device to the AUX input socket (F).
2. Press **SRC/PAUSE** (G).
3. Turn the device on.
4. Rotate ⏻ (J) to increase or decrease the volume.

Note
The device cannot be controlled by the audio system buttons.

USB, iPod® mode selection

To select USB, iPod® mode:

1. Connect a USB stick or iPod® to the USB port (Y).
2. Press **SRC/PAUSE** (G).

iPod®

All audio media types that are supported by the iPod® can be played.

Next/previous track

1. Press ⏩ (D) or ⏪ (E).

Fast forward/fast reverse

1. Press and hold ⏩ (D) or ⏪ (E).

Pause

1. Press **SRC/PAUSE** (G) while a track is playing.

   Pause is displayed.
2. Press **SRC/PAUSE** (G) again to begin playback.

Repeat

1. Press (B) below **RPT** on the audio display screen.

   The current track is repeated.
2. To cancel, press (B) below **RPT** again.

Random

1. Press (B) below **RDM** on the audio display screen.

   Tracks are played randomly.
2. To cancel, press (B) below **RDM** again.

Intro scan

1. Press (B) below **INT** on the audio display screen.

   Ten seconds of each track are played.
2. To cancel, press (B) below **INT** again.

iPod® navigation

To select from iPod® categories, Song, Artists, Albums etc:

1. Press **MENU/SOUND** (L).
2. Press ⏮ (O) or ⏭ (P) to choose a category.
3. Press (B) below **ENT** on the audio display screen to select.

Note
To go back to a previous step, press (B) below ← on the audio display screen.

USB port

General information

A USB stick can be connected to the USB port.

The USB port is located under the lid of the centre console.

⚠Warning

Do not connect USB devices such as; hard discs, multi plug USB hubs or other digital equipment to the USB port.

Connecting other devices can cause malfunction or destroy the audio equipment.

Do not use any equipment that prevents safe driving.

> **Caution**
>
> In rare cases, a USB stick (thumb drive) may not be recognised by the system or may cause a malfunction.

To ensure compatibility with the infotainment system the file system for USB sticks should be FAT32.

The following file formats are supported:

- MP3 (MPEG 1 layer 3)
- WMA (Windows Media Audio)

The total number of files and folders that can be searched is limited to a pre-defined value.

- Removing a USB device during play may cause device malfunction.
- The use of USB HUBs is not recommended. Connect a USB device directly into the USB port.
- HDD type/CF memory is not supported.

Next/previous track

1. Press ⏩ (D) or ⏪ (E).

Next/previous folder

1. Press ⏮ (O) or ⏭ (P).

Fast forward/fast reverse

1. Press and hold ⏩ (D) or ⏪ (E).

Pause

1. Press **SRC/PAUSE** (G) while a track is playing.

   Pause is displayed.
2. Press **SRC/PAUSE** (G) again to begin playback.

Repeat

1. Press (B) below **RPT** on the audio display screen.

   The current track is repeated.
2. To cancel, press (B) below **RPT** again.

Random

1. Press (B) below **RDM** on the audio display screen.

   Tracks are played randomly.
2. To cancel, press (B) below **RDM** again.

Intro scan

1. Press (B) below **INT** on the audio display screen.

   Ten seconds of each track are played.
2. To cancel, press (B) below **INT** again.

MP3 player

The vehicle may have an MP3 player.

Playable MP3 file standards:

Compression type	MPEG-1 audio layer III
Sampling frequency	8,11.025, 12, 16, 22.05, 24, 32, 44.1, 48 (kHz)
Bit rate	8~320 (kbps)
Max. directory layer	8
Max. characters for folder/ file name	64 Bytes
Character set for folder/ file name	A to Z, 0 to 9, _ (underscore)
Max. number of folders	256
Max. number of files	512
ID3 Tag	Ver 1.0, Ver 1.1, Ver 2.2, Ver 2.3, Ver 2.4

- A fixed bit rate of 96, 128 or 192 kbps with sampling frequency of 44.1 kHz is recommended for stable audio quality during playback.
- If the bit rate exceeds 192 kbps, there may be sound jumping during MP3 playback.

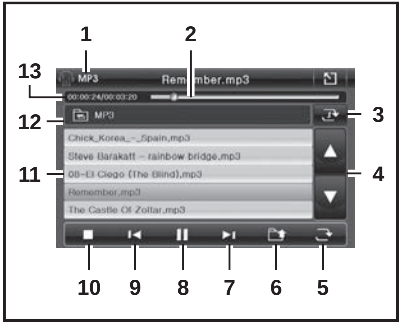
  Use 192 kbps or a lower bit rate for the MP3.

Note

- Each file that is not an MP3 file is also counted as a file.
- MP3 tracks will only play from an SD card through the navigation system.
- MP3 tracks can be played from a CD on the CD player or via the auxiliary input socket using an external portable device. See Auxiliary devices on page 94.

MP3 player operation

1. Insert an SD card at (X). See Colour Information Display (CID) on page 72.
2. Press **MENU** (U).
3. Touch **MP3** or press **MODE** on the steering wheel remote controls until MP3 player is displayed.


1
2
13
MP3
Rem mber.mp3
00:00:24/00:03:20
12
MP3
3
Chick_Korea_-_Spain.mp3
Steve Barakatt – rainbow bridge.mp3
11
08-El Ciego (The Blind).mp3
4
Remember.mp3
The Castle Of Zoltar.mp3
10
9
8
7
6
5

1. File information
2. Playing status
3. Repeat
4. List control
5. Random order
6. Higher folder
7. Next file
8. Play/pause
9. Previous file
10. Stop
11. File list
12. Current folder
13. Playing time

Movie player

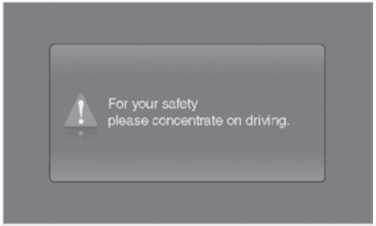
The vehicle may have a movie player.

Supported file formats:

Audio	MP3, WMA, OGG, WAV (bit rate 128~192 kbps)
Video	MPEG1/2/4, DivX3.0/4.0/5.0, XviD, WMV7.0/8.0/9.0
DTS	Not supported
Resolution	800 x 480

Note

- A movie which has higher than 800 x 480 resolution may not play properly.
- When a movie is being played, other operations will perform slower.
- When installing a mixed mode SD card (combination of audio, movie and data) only the movie files are recognised and played.



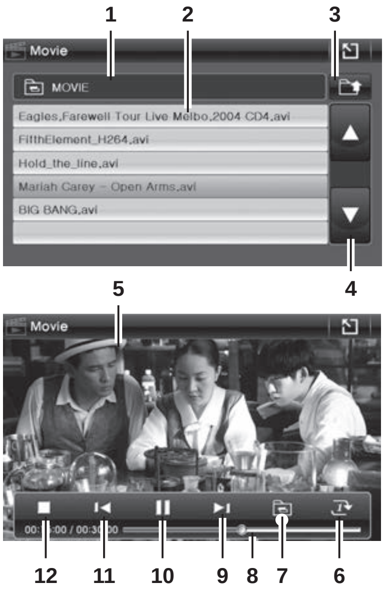
For your safety
please concentrate on driving.

⚠Warning

The driver cannot safely view movies while driving and should not try to do so.

Movie player operation

1. Insert an SD card at (X). See Colour Information Display (CID) on page 72.
2. Press **MENU** (U).
3. Touch **Movie**.


1
2
3
Movie
MOVIE
Eagles,Farewell Tour Live Melbo,2004 CD4.avi
FifthElement_H264.avi
Hold_the_line.avi
Mariah Carey – Open Arms.avi
BIG BANG.avi
5
4
Movie
00:15:00 / 00:30:00
12
11
10
9
8
7
6

1. Current folder
2. File list
3. Higher folder
4. List control
5. Full screen on/off
6. Repeat
7. Movie folder
8. Playing status
9. Next file
10. Play/pause
11. Previous file
12. Stop

Navigation

The vehicle may have a navigation system.

The navigation system:

- Allows a route to be planned
- Provides map guidance
- Provides voice prompts during driving

⚠Warning

Information in the system may not always be up-to-date.

Road conditions, such as detours and road construction works, change frequently.

Traffic regulations have priority over any instructions from the navigation system. Always follow the posted traffic signs, speed limits and road restrictions.

General information

Before using the navigation system, read this section thoroughly.

- Become familiar with the system controls and operation.
- Follow the warnings and cautions to prevent the risk of injury to yourself and others and avoid damage to property.
- Do not place objects on the dashboard. Disruption of signals and screen display brightness may occur.
- If the vehicle's windscreen is tinted with a reflective metal coating, it will affect the navigation reception.
- Do not apply excessive force to the touch screen.
- Do not use the system if the screen freezes or there is no sound. Contact a Holden Dealer.
- The unit may not function properly in extreme cold or hot conditions.
- Do not use chemicals or other domestic cleaning agents to clean the touch screen. Use only a soft cloth slightly moistened with water.
- Turn the volume down prior to turning the device on.

⚠Warning

Do not disassemble or modify the device in any way.

Do not pour water or insert foreign objects into the device.

If the liquid crystal panel cracks, do not come into contact with the liquid:

If the liquid is ingested, consult a doctor immediately.

If the liquid gets into the eyes or onto the skin, wash out with a large amount of water and consult a doctor immediately.

⚠Danger

Giving extended attention to navigation tasks while driving will greatly increase the risk of a collision that may cause personal injury or death.

Road safety has absolute priority!

Only operate this system if the road and traffic conditions allow you to do so.

The driver's full attention is always required while driving.

Use voice guidance directions whenever possible.

Navigation overview

The navigation system has three navigation modes:

Route navigation

Real-time navigation between start, waypoint and destination.

Simulate navigation

Life-like simulation of the routing between start, waypoint and destination. It enables you to check the POI or route information along the route. Simulate mode is mostly used when no navigation position is present.

Free navigation

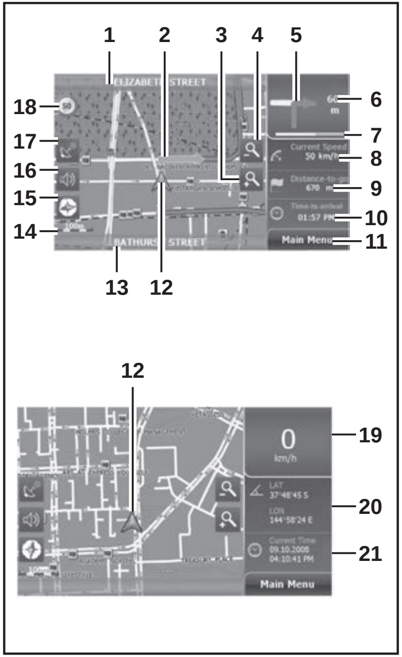
Real-time navigation without destination when the navigation position has been fixed.

Route and free navigation maps

The route and free navigation map screen is the most frequently used screen of the navigation system.

The free navigation map screen displays when cold starting the system.

The route navigation map continues from the last navigation.



Current Speed 50 km/h

Distance-to-go 670 m

Time-to-arrival 01:57 PM

0 km/h

LAT 37°48'45 S

LON 144°58'24 E

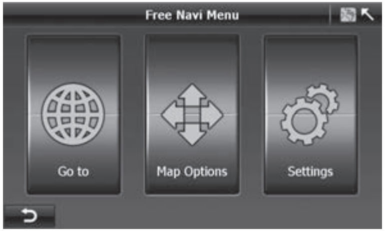
Current Time 09.10.2008 04:10:41 PM

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
ELIZABETH STREET
BATHURST STREET
50
100m
60 m
Main Menu

1. Next road
2. Next turn
3. Zoom in
4. Zoom out
5. Turning information
6. Distance to next turn
7. Distance progress bar
8. Current speed
9. Distance to go
10. Time-to-arrival
11. Main menu
12. Car position icon
13. Current road
14. Scale bar
15. Compass
16. Volume
17. GPS status
18. Speed alert
19. Driving speed
20. Longitude/latitude
21. Current time

To access functions:

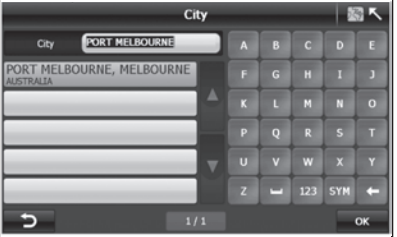
1. Touch **Main Menu**.


Free Navi Menu
Go to
Map Options
Settings

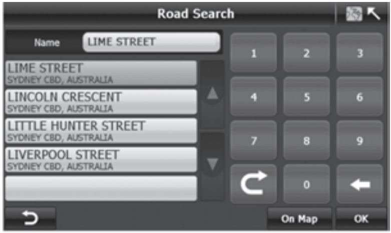
- Touch **Go to** to set destination(s). See Using the navigation system, on page 108.
- Touch **Map Options** to change map parameters. See Map options on page 123.
- Touch **Settings** to change all settings parameters. See Settings on page 125.
- Touch 🗺↖ to return to the navigation map.

Keyboards

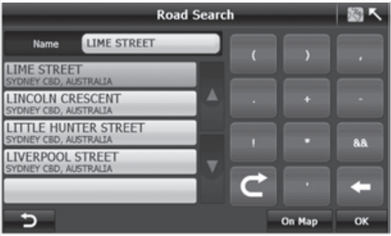
The navigation system provides three types of touch keyboard:


City
City
PORT MELBOURNE
PORT MELBOURNE, MELBOURNE
AUSTRALIA
A B C D E
F G H I J
K L M N O
P Q R S T
U V W X Y
Z 123 SYM
1 / 1
OK

ABC-type keyboard (contains letters only)


Road Search
Name
LIME STREET
LIME STREET
SYDNEY CBD, AUSTRALIA
LINCOLN CRESCENT
SYDNEY CBD, AUSTRALIA
LITTLE HUNTER STREET
SYDNEY CBD, AUSTRALIA
LIVERPOOL STREET
SYDNEY CBD, AUSTRALIA
1 2 3
4 5 6
7 8 9
0
On Map
OK

Numeric keyboard


Road Search
Name
LIME STREET
LIME STREET
SYDNEY CBD, AUSTRALIA
LINCOLN CRESCENT
SYDNEY CBD, AUSTRALIA
LITTLE HUNTER STREET
SYDNEY CBD, AUSTRALIA
LIVERPOOL STREET
SYDNEY CBD, AUSTRALIA
( ) ,
. + -
! " &&
'
On Map
OK

Punctuation keyboard

123	Switch to the numeric keyboard
SYM	Switch to the punctuation keyboard
↪	Return to the ABC-type keyboard
␣	Space key
⬅	Delete the last letter entered
↩	Return to the previous screen
On Map	Display the location of the highlighted record on the map
OK	Confirm the keyboard entry and selected item
🗺↖	Return to the navigation map

Getting started

The navigation system:

- Smoothly scrolls the map to get an overview of your location or position.
- Adjusts the map scale according to the driving speed.
- Provides detailed information of each turning point of a proposed route.
- Provides clear illustrations of each intersection for viewing the direction and destination in advance.
- Provides information about the number of signals received from navigation satellites.
- Logs trip information. This information can be replayed or re-used for future trips.
- Displays two or more POIs with the same or close location.
- Enables navigation in tunnels and underground car parking buildings.
- Automatically stores the current position and travelled path on the map, when driving off road.
- Displays the distance from your current position to the next exit.
- Alerts you by voice guidance when you are approaching the speed limit. You can set speed tolerance from 0 to 20%. The safety alert is based on the legal speed limit of a particular road.

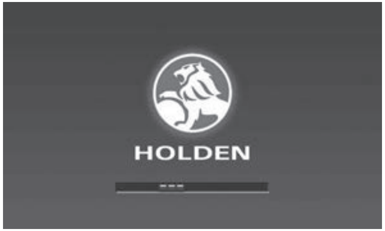
Use the navigation system to:

- Move the map screen in any direction.
- Check for Point of Interest (POI) information.
- Quickly locate the current position and information about the next turning point.
- Adjust lighting for better visualisation of the map at night.
- Select two waypoints at most and be guided to your destination one by one.

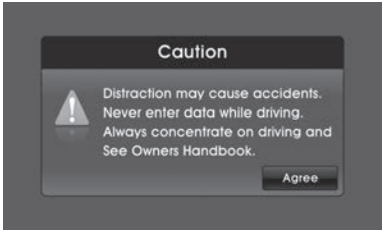
- Select POI categories, allowing searches for restaurants, airports, petrol stations, etc.
- Plan an entire route.
- Change the left/right layout between the map and navigation information column to observe local regulations and driving position.
- Display or hide the current vehicle speed.

Initial startup

1. Turn the ignition key to the **ACC** or **ON** positions.



When starting the system for the first time, the Holden welcome screen is displayed.



Distraction may cause accidents.
Never enter data while driving.
Always concentrate on driving and
See Owners Handbook.

After approximately 10 seconds, the Caution screen is displayed.

1. Read the caution.
2. Touch **Agree** to enter the Free Navi Map screen.

Note

- When using the navigation system receiver for the first time, it may take up to 3 minutes to secure satellite information and locate your position.

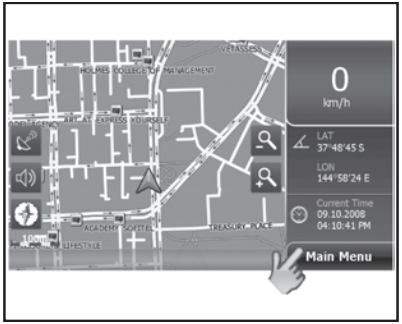
Regular startup

- The screen displays the last used mode.
- When the ignition key is turned to the **LOCK** position, the system runs for 30 seconds to save the data.
- If starting the system within 30 seconds of turning the ignition to the **LOCK** position, the system does not require rebooting.
- To reboot, press **MENU** (U) and **TRIP** (V) together for 10 seconds. See Colour Information Display (CID) on page 72.

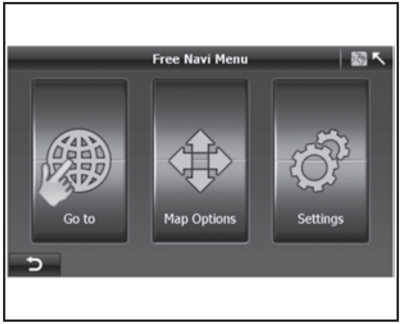
  Release the buttons when the system restarts.
- Have at least three strong satellite signals.
- Have a fixed position once the application starts.

Using the navigation system

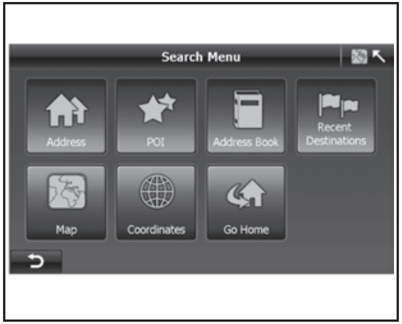
From the Free Navi map:


HOLMES COLLEGE OF MANAGEMENT
ART AT EXPRESS YOURSELF
ACADEMY SOFITEL
TREASURY PLACE
LIFESTYLE
100m
0
km/h
LAT
37°48'45 S
LON
144°58'24 E
Current Time
09.10.2008
04:10:41 PM
Main Menu

1. Touch **Main Menu**.


Free Navi Menu
Go to
Map Options
Settings

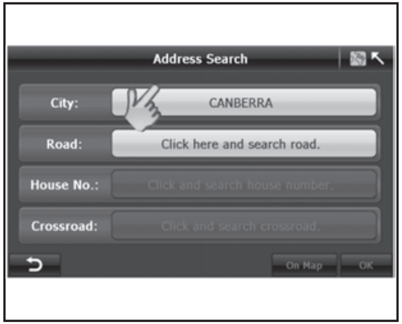
2. Touch **Go to**.


Search Menu
Address
POI
Address Book
Recent Destinations
Map
Coordinates
Go Home

There are seven ways of selecting a destination.

Address

1. Touch the **Address**.


Address Search

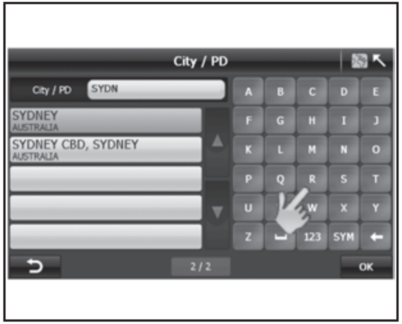
City: CANBERRA

Road: Click here and search road.

House No.: Click and search house number.

Crossroad: Click and search crossroad.

2. Touch **City** input box.


City / PD

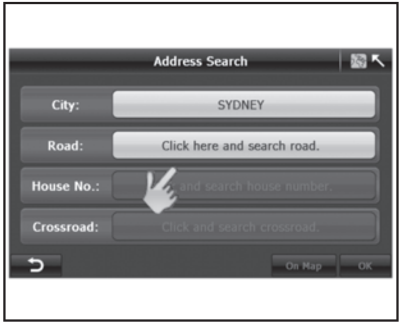
City / PD: SYDN

SYDNEY
AUSTRALIA

SYDNEY CBD, SYDNEY
AUSTRALIA

A B C D E
F G H I J
K L M N O
P Q R S T
U W X Y
Z 123 SYM
2 / 2
OK

3. Enter the city name or enter the first letter(s).
4. Select the city from the list.
5. Touch **OK**.


Address Search

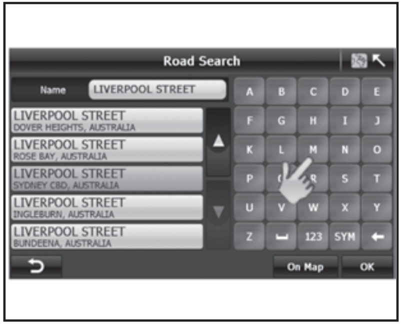
City: SYDNEY

Road: Click here and search road.

House No.: and search house number.

Crossroad: Click and search crossroad.

6. Touch **Road** input box.


Road Search

Name: LIVERPOOL STREET

LIVERPOOL STREET
DOVER HEIGHTS, AUSTRALIA

LIVERPOOL STREET
ROSE BAY, AUSTRALIA

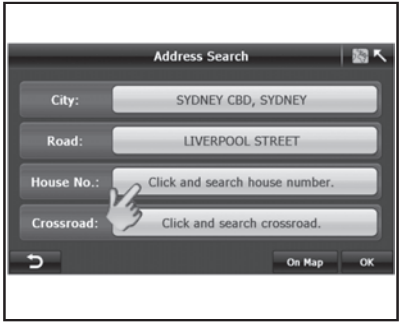
LIVERPOOL STREET
SYDNEY CBD, AUSTRALIA

LIVERPOOL STREET
INGLEBURN, AUSTRALIA

LIVERPOOL STREET
BUNDEENA, AUSTRALIA

A B C D E
F G H I J
K L M N O
P R S T
U V W X Y
Z 123 SYM
On Map
OK

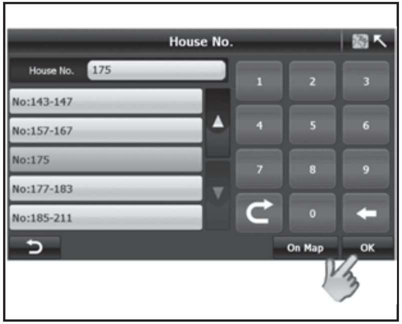
7. Enter the road name or enter the first letter(s).
8. Touch **OK**.



Address Search
On Map
OK

City: SYDNEY CBD, SYDNEY
Road: LIVERPOOL STREET
House No.: Click and search house number.
Crossroad: Click and search crossroad.

9. Touch **House No.** input box**.**

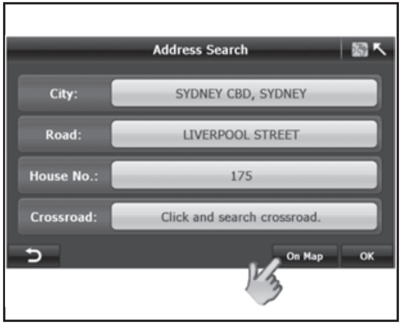


House No.
1
2
3
4
5
6
7
8
9
0
On Map
OK

House No. 175
No:143-147
No:157-167
No:175
No:177-183
No:185-211

10. Enter the house number.
11. Touch **OK**.

Note
If the house number entered does not exist, a default is displayed.

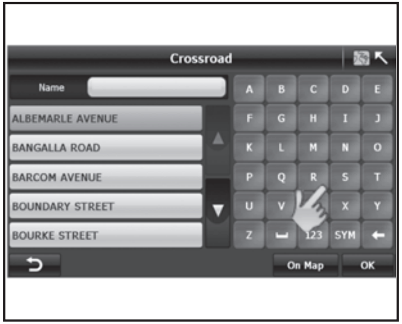


Address Search
On Map
OK

City: SYDNEY CBD, SYDNEY
Road: LIVERPOOL STREET
House No.: 175
Crossroad: Click and search crossroad.

To select a destination using Crossroad:

1. Touch **Crossroad** input box.



Crossroad
Name
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
X
Y
Z
123
SYM
On Map
OK

ALBEMARLE AVENUE
BANGALLA ROAD
BARCOM AVENUE
BOUNDARY STREET
BOURKE STREET

A list of available intersections is displayed along the selected road.

2. Select the intersection.

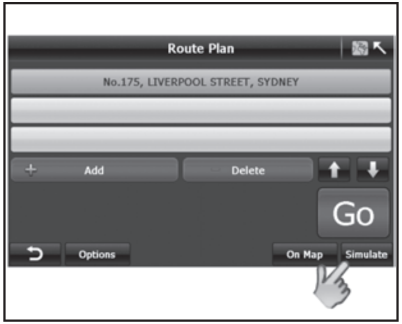
   Alternatively, search the intersection by entering the road name or enter the first letter(s).

   A list of roads is displayed.

3. Touch to select a road name.

4. Touch **On Map** to display the location of the address.

   Alternatively, touch **OK** to go to the Route Plan screen to start navigating.


Route Plan
Add
Delete
Go
Options
On Map
Simulate

No.175, LIVERPOOL STREET, SYDNEY

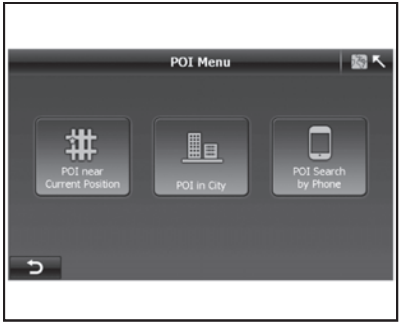
5. Touch **Go** to start navigating.

   Alternatively, touch **Simulate** to view the trip.

   See Route plan on page 118.

Points of interest

Select Points of Interest (POI) near your current position, in the city or by phone number. See POI symbols on page 132.

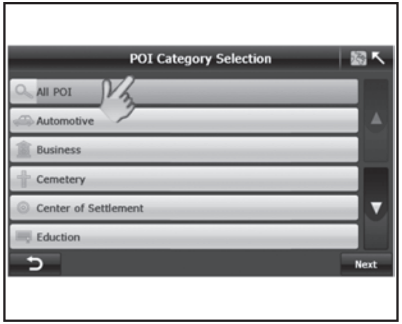

POI Menu
POI near Current Position
POI in City
POI Search by Phone

The POI near current position:

- Displays three hundred POIs around your current position.
- When the vehicle is stationery, is the place where your vehicle is located/fixed.
- When the vehicle is in motion, is the last fixed location.

POI near current position

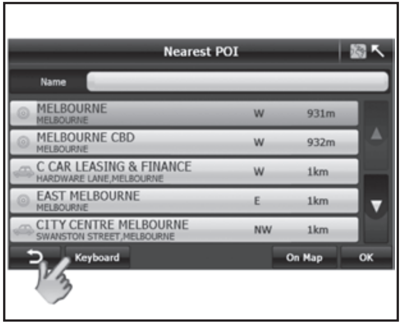
1. Touch **POI near Current Position**.


POI Category Selection
All POI
Automotive
Business
Cemetery
Center of Settlement
Eduction
Next

2. Touch a category.

   Alternatively, touch ▼or ▲ to view more categories.
3. Touch **Next**.

   Alternatively, select **All POI**.
4. Touch to select a sub-catagory.
5. Touch **OK**.


Nearest POI
Name
Keyboard
On Map
OK

MELBOURNE MELBOURNE	W	931m
MELBOURNE CBD MELBOURNE	W	932m
C CAR LEASING & FINANCE HARDWARE LANE,MELBOURNE	W	1km
EAST MELBOURNE MELBOURNE	E	1km
CITY CENTRE MELBOURNE SWANSTON STREET,MELBOURNE	NW	1km

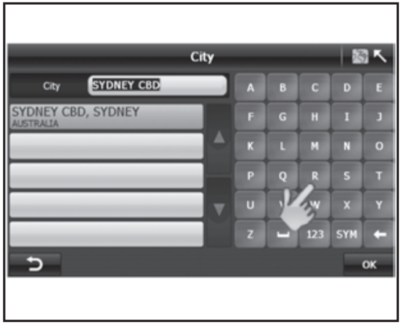
6. Touch to select a POI.

   Alternatively, touch **Keyboard** to enter the POI name or enter the first letter(s).
7. Touch **On Map** to display the location.

   Alternatively, touch **OK** to go to the Route Plan screen.
8. Touch **Go** to calculate the route and start guidance.

POI in the city

1. Touch **POI in City**.


City
A B C D E
F G H I J
K L M N O
P Q R S T
U V W X Y
Z 123 SYM
OK

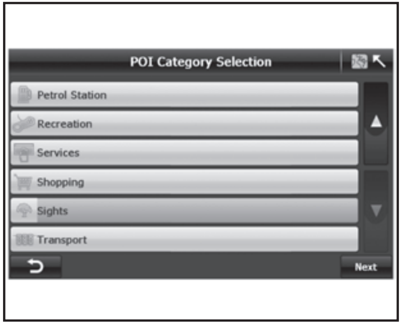
City SYDNEY CBD

SYDNEY CBD, SYDNEY
AUSTRALIA

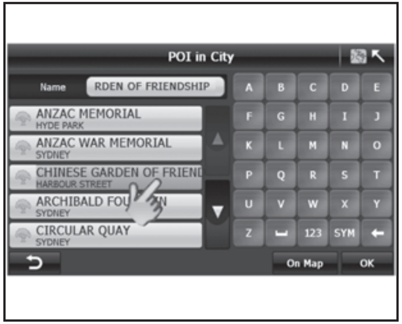
2. Enter the city name or enter the first letter(s).
3. Select from the results.
4. Touch **OK**.

To change the city entry:

5. Touch ↩ to return to the City screen.


POI Category Selection
Petrol Station
Recreation
Services
Shopping
Sights
Transport
Next

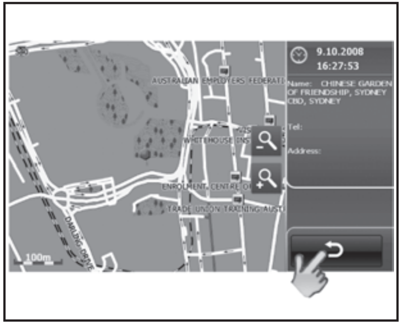
6. Select a POI category.
7. Touch **Next**.
8. Touch to select a sub-catagory.
9. Touch **OK**.


POI in City
Name
RDEN OF FRIENDSHIP
ANZAC MEMORIAL
HYDE PARK
ANZAC WAR MEMORIAL
SYDNEY
CHINESE GARDEN OF FRIEND
HARBOUR STREET
ARCHIBALD FOU N
SYDNEY
CIRCULAR QUAY
SYDNEY
A B C D E
F G H I J
K L M N O
P Q R S T
U V W X Y
Z 123 SYM
On Map
OK

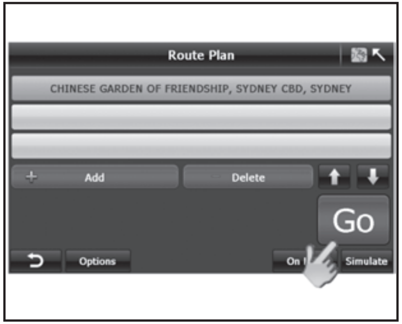
10. Select from the results.

    Alternatively, enter the name of the POI.

11. Touch **On Map** to display the location.


9.10.2008
16:27:53
Name: CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY
Tel:
Address:
AUSTRALIAN EMPLOYERS FEDERATI
WHITEHOUSE INS
ENROLMENT CENTRE OF
TRADE UNION TRAINING AUST
DARLING DRIVE
100m

12. Touch ⮌ to return to the Address Search screen.


Route Plan
CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY
Add
Delete
Go
Options
On
Simulate

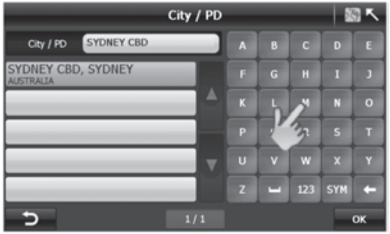
13. Touch **OK** to go to the Route Plan screen.

    The POI will be displayed in the destination list.

14. Touch **Go** to calculate the route and start guidance.

POI search by phone

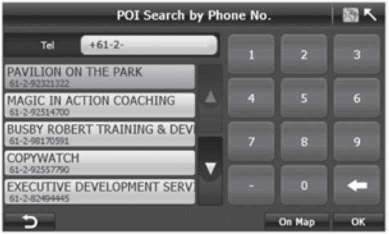
1. Touch **POI Search by Phone**.


City / PD
City / PD
A B C D E
F G H I J
K L M N O
P Q R S T
U V W X Y
Z 123 SYM
1 / 1
OK

SYDNEY CBD

SYDNEY CBD, SYDNEY
AUSTRALIA

2. Enter the city name or enter the first letter(s).
3. Select from the results.
4. Touch **OK**.


POI Search by Phone No.
Tel
1 2 3
4 5 6
7 8 9
- 0
On Map
OK

+61-2-

PAVILION ON THE PARK
61-2-92321322

MAGIC IN ACTION COACHING
61-2-92514700

BUSBY ROBERT TRAINING & DEV
61-2-98170591

COPYWATCH
61-2-92557790

EXECUTIVE DEVELOPMENT SERV
61-2-82494445

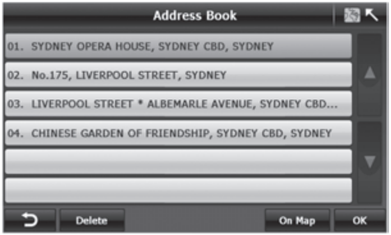
5. Enter the telephone number.
6. Select from the results.
7. Touch **OK** to go to the Route Plan screen.

   The POI will be displayed in the destination list.
8. Touch **Go** to calculate the route and start guidance.

Address book

Save your home address and other favourite places in the address book. See Address book on page 127.

1. Touch **Address Book**.


Address Book
Delete
On Map
OK

01. SYDNEY OPERA HOUSE, SYDNEY CBD, SYDNEY
02. No.175, LIVERPOOL STREET, SYDNEY
03. LIVERPOOL STREET * ALBEMARLE AVENUE, SYDNEY CBD...
04. CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY

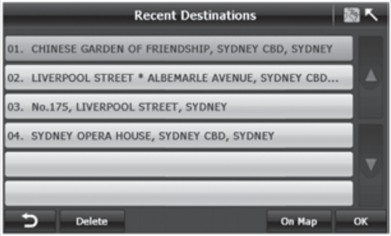
2. Select an address or POI.
3. Touch **OK** to go to the Route Plan screen.

   The selected destination is displayed.
4. Touch **Go** to calculate the route and start guidance.

Recent destinations

Fifty recent destinations can be saved and accessed.

1. Touch **Recent Destinations**.



Recent Destinations

01. CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY
02. LIVERPOOL STREET * ALBEMARLE AVENUE, SYDNEY CBD...
03. No.175, LIVERPOOL STREET, SYDNEY
04. SYDNEY OPERA HOUSE, SYDNEY CBD, SYDNEY

Delete
On Map
OK

2. Select a recent destination.
3. Touch **OK**.

   Alternatively, touch **On Map** to display the location.
4. Touch **OK** to go to the Route Plan screen.

   The selected destination is displayed.
5. Touch **Go** to calculate the route and start guidance.

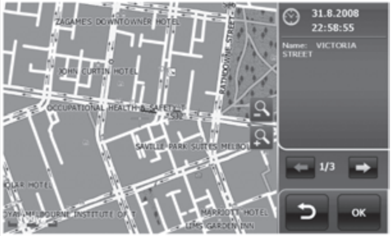
   Note

   To remove a recent destination, touch **Delete**.

Map

Scroll the map to the desired location.

1. Touch **Map**.

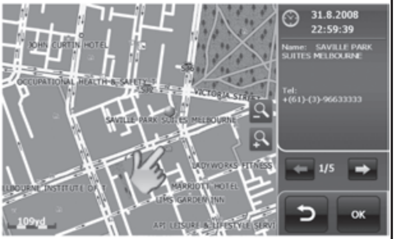


31.8.2008
22:58:55

Name: VICTORIA STREET

ZAGAMES DOWNTOWNER HOTEL
JOHN CURTIN HOTEL
RATHDOWNE STREET
OCCUPATIONAL HEALTH & SAFETY T
SAVILLE PARK SUITES MELBOU
OLAR HOTEL
YAL MELBOURNE INSTITUTE OF T
MARRIOTT HOTEL
LIMS GARDEN INN
1/3
OK

2. Touch the map and scroll to reposition.
3. Touch 🔍 and 🔍 to zoom.


JOHN CURTIN HOTEL
OCCUPATIONAL HEALTH & SAFETY
VICTORIA STREET
SAVILLE PARK SUITES MELBOURNE
LADYWORKS FITNESS
MARRIOTT HOTEL
ELMS GARDEN INN
MELBOURNE INSTITUTE OF T
API LEISURE & LIFESTYLE SERVI
109yd
1/5
OK

31.8.2008
22:59:39

Name: SAVILLE PARK SUITES MELBOURNE

Tel: +(61)-(3)-96633333

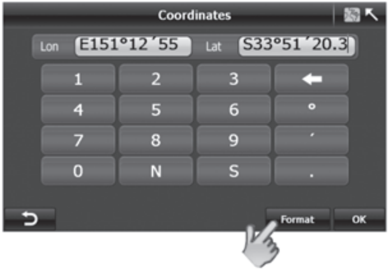
4. Touch the POI or road to view information.
5. Touch 🡸 or 🡺 to check other POI information when more than one POI is located at one point.
6. Touch **OK** to go to the Route Plan screen.

   The POI or location will be displayed in the destination list.
7. Touch **Go** to calculate the route and start guidance.

Coordinates

Enter the geographic coordinates of a destination to navigate to a location.

1. Touch **Coordinates**.


Coordinates
1
2
3
4
5
6
°
7
8
9
´
0
N
S
.
Format
OK

Lon E151°12´55 Lat S33°51´20.3

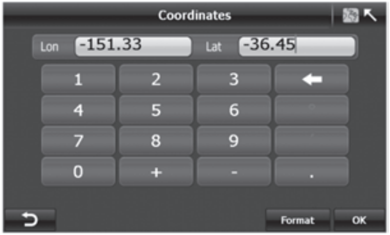
2. Touch **Format** to change the type of coordinates:

   Degree format or digital format.

In the degree format screen:

- Enter **Lon** (Longitude). Input **E** (East longitude) or **W** (West longitude) before entering the degree number of the longitude.

  Before entering the degree number of the latitude, enter **N** (North latitude) or **S** (South latitude).


Coordinates
1
2
3
4
5
6
7
8
9
0
+
-
.
Format
OK

Lon -151.33 Lat -36.45

In the digital format screen:

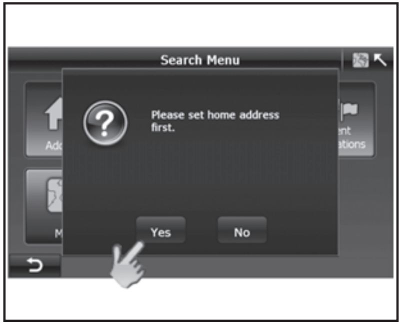
- Enter (West longitude/south latitude) before entering the digital number of the longitude or the latitude.

3. Enter the coordinates.

4. Touch **OK**.
5. The location will be displayed in the destination list.
6. Touch **Go** to calculate the route and start guidance.

Go home

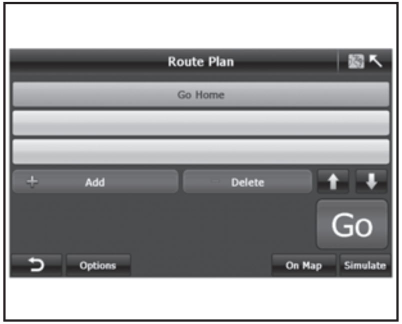
1. Touch **Go Home**.


Search Menu
Yes
No

Please set home address first.

If the position of My Home has not been specified, a popup is displayed.

2. Touch **Yes** to enter the Search Menu screen. See Address on page 109.


Route Plan
Go Home
Add
Delete
Go
Options
On Map
Simulate

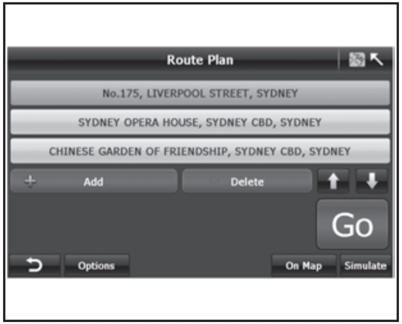
3. Touch **Go** to calculate the route and start guidance.

Route plan

Enter a destination and specify how the route is to be calculated.

- Set two waypoints.

  Usually, the start point is the current fixed position.
- To select a destination, see Using the navigation system on page 108.



Route Plan
Add
Delete
Go
Options
On Map
Simulate

No.175, LIVERPOOL STREET, SYDNEY

SYDNEY OPERA HOUSE, SYDNEY CBD, SYDNEY

CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY

When the Route Plan screen is displayed:

- Touch **Add** to search for waypoints/destinations.
- To delete, touch **Delete**.

  The highlighted waypoint/destination is removed.

To change the sequence:

- Touch ⬆ to move the highlighted waypoint/destination up.
- Touch ⬇ to move the highlighted waypoint/destination down.

  Note

  A greyed out key indicates the function is disabled.

To display the destination:

- Touch **On Map**. This allows you:

  To tap on the map to check information on the waypoint/destination

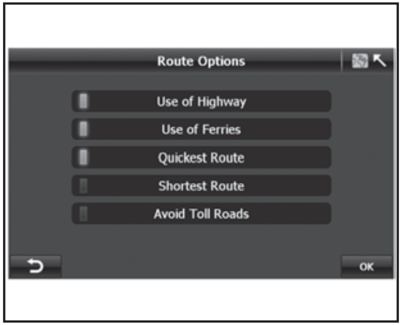
  Zoom out/in

  Move the map in any direction.
- Touch ↩ to return to the Route Plan screen.

Route options

- Touch **Options**.

  The Route Options screen is displayed.



Route Options
Use of Highway
Use of Ferries
Quickest Route
Shortest Route
Avoid Toll Roads
OK

- Select a road type and routing preference according to different situations.

  Touch each field to change the mode or preference.

Road type

- Use of Highway: Use highways (light blue)
- Use of Highway: Avoid highways (dark blue)
- Use of Ferries: Use Ferries (light blue)
- Use of Ferries: Avoid ferries (dark blue)
- Avoid Toll Roads (light blue)
- Allow Toll Roads (dark blue)

Routing preference

Quickest route:

Calculates the quickest possible route to travel, at or near the speed limit.

Shortest route:

Uses the most direct route possible to travel the minimum number of kilometres.

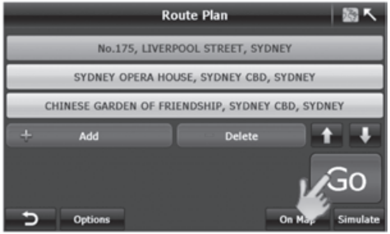
- Touch to select a routing preference.

  The chosen preference is highlighted (light blue).
- Touch ↩ to return to the Route Plan screen without saving settings.
- Touch **OK** to confirm the route option settings and return to the Route Plan screen.

Navigation modes

For more information, see Navigation overview on page 103.

Route navigation



No.175, LIVERPOOL STREET, SYDNEY

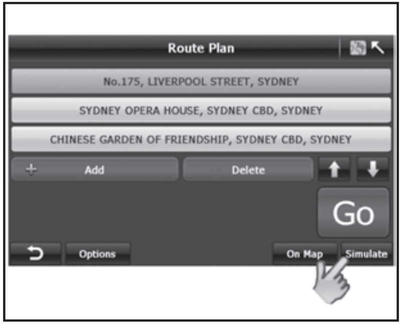
SYDNEY OPERA HOUSE, SYDNEY CBD, SYDNEY

CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY

Real-time navigation between the starting point and destination.

1. Touch **Go** to calculate route and start guidance.

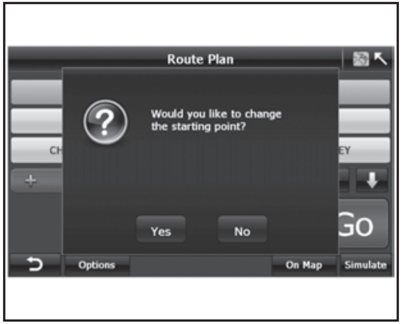
Simulate navigation


Route Plan
No.175, LIVERPOOL STREET, SYDNEY
SYDNEY OPERA HOUSE, SYDNEY CBD, SYDNEY
CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY
Add
Delete
Go
Options
On Map
Simulate

A lifelike simulation of the route between starting point and destination is shown.

It enables checking of the POI or route information along the route.

Simulate mode is mostly used when no navigation position is present.


Route Plan
Yes
No
Go
Options
On Map
Simulate

Would you like to change the starting point?

To start simulation:

1. Touch **Simulate**.

   Would you like to change the starting point popup is displayed.

   Yes: The Search Menu screen appears.

   No: The route is calculated and simulation started.

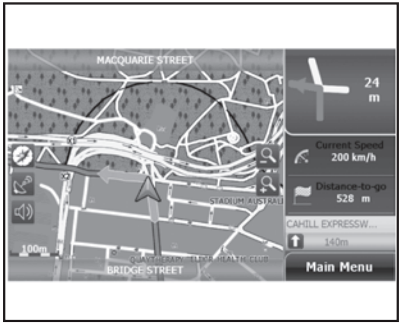
To stop simulation:

1. Touch **Main Menu**.
2. Touch **Terminate**.

   The current position on the map is displayed.

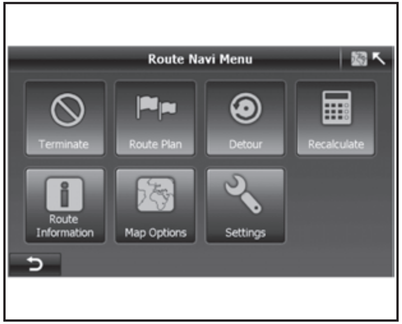
Navigating

- Select a destination. See Using the navigation system on page 108.
- Plan a route. See Route plan on page 118.
- For route and free navigation maps, see Navigation overview on page 103.
- View additional navigation settings in the Route Navi Menu.


MACQUARIE STREET
24 m
Current Speed
200 km/h
Distance-to-go
528 m
STADIUM AUSTRALI
CAHILL EXPRESSW...
140m
100m
BRIDGE STREET
Main Menu

When in guidance mode:

1. Touch **Main menu**.


Route Navi Menu
Terminate
Route Plan
Detour
Recalculate
Route Information
Map Options
Settings

The Route Navi Menu is displayed.

Terminate

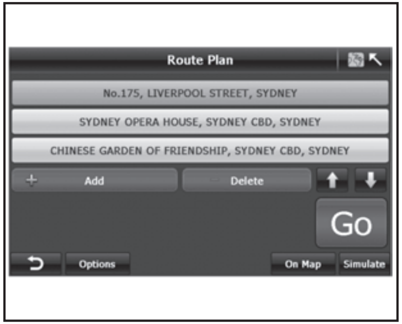
Stop navigation and enter the Free Navi maps.

1. Touch **Terminate**.

Route plan

Change a destination or add more destinations during navigation.

1. Touch **Route Plan**.


Route Plan
Add
Delete
Go
Options
On Map
Simulate

No.175, LIVERPOOL STREET, SYDNEY

SYDNEY OPERA HOUSE, SYDNEY CBD, SYDNEY

CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY

See Route plan on page 118.

Auto-routing

Auto-routing works in two situations:

Auto starting navigation

1. Set a destination.
2. Touch **Go**.

   The route is calculated and guidance started.

Auto re-routing

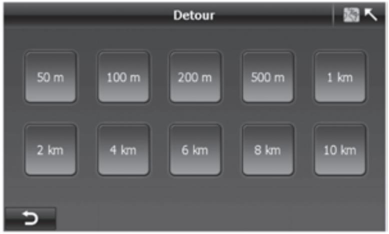
- If the recommended turning point is missed by approximately 100 metres, a new route will be recalculated.

Detour

If in a traffic jam, estimate the distance to the blocking point and select an appropriate option.

A detour route will calculated.

1. Touch **Detour**.



2. Touch the detour distance.
3. Touch **OK** to accept the detour.
4. Touch **Cancel t**o cancel the detour.

   Guidance is continued.

Recalculate

Change or view an alternative route.

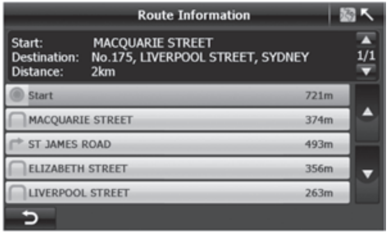
1. Touch **Recalculate**.

   The route is recalculated and guidance started.

Route information

Route information includes: Start, destination, distance, next street name, distance between two turns and turn type.

1. Touch **Route Information**.



Start: MACQUARIE STREET
Destination: No.175, LIVERPOOL STREET, SYDNEY
Distance: 2km

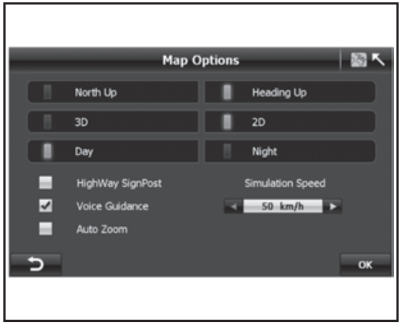
Start	721m
MACQUARIE STREET	374m
ST JAMES ROAD	493m
ELIZABETH STREET	356m
LIVERPOOL STREET	263m

2. Touch ▲ or ▼ to select the next page.
3. Touch ↩ to return to the Route Navi Menu.

Map options

Access the Map Options screen from both the Free Navi Menu screen and the Route Navi Menu screen.

The following map rotations are available:


Map Options
OK

North Up | Heading Up

3D | 2D

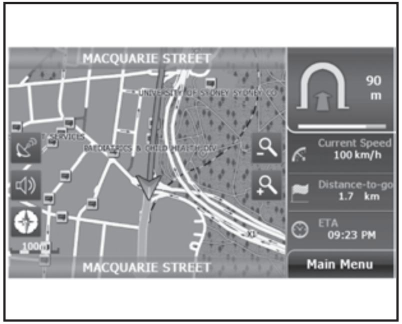
Day | Night

☐ HighWay SignPost

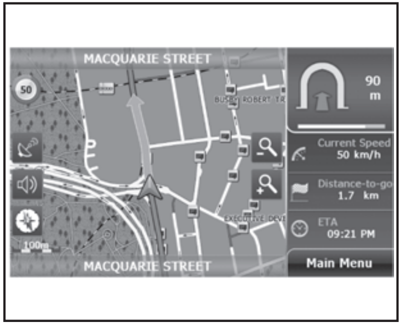
☑ Voice Guidance

☐ Auto Zoom

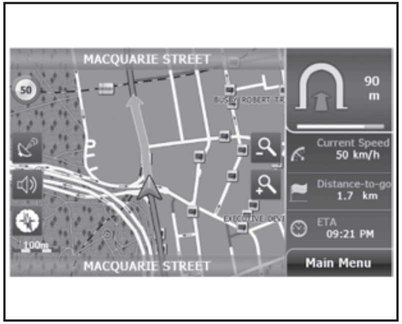
Simulation Speed ◄ 50 km/h ►

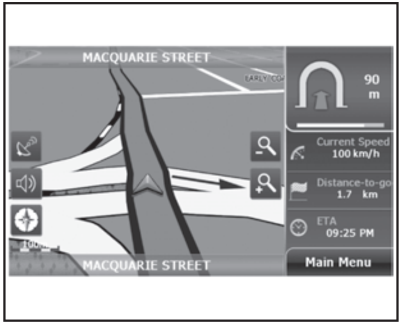

MACQUARIE STREET
90 m
Current Speed 100 km/h
Distance-to-go 1.7 km
ETA 09:23 PM
Main Menu
100m
MACQUARIE STREET

- North up: The map is fixed to face north.

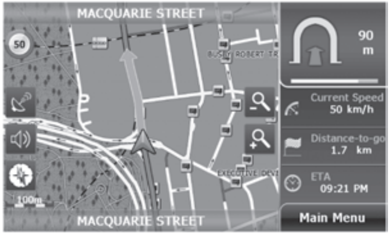

MACQUARIE STREET
50
90 m
Current Speed 50 km/h
Distance-to-go 1.7 km
ETA 09:21 PM
Main Menu
100m
MACQUARIE STREET

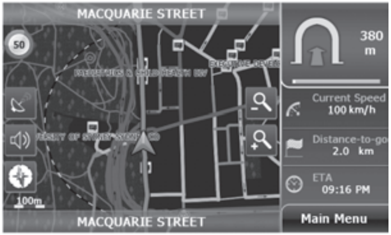
- Heading up: Rotates the map in the direction of movement.


MACQUARIE STREET
50
90 m
Current Speed 50 km/h
Distance-to-go 1.7 km
ETA 09:21 PM
Main Menu
100m
MACQUARIE STREET


MACQUARIE STREET
90 m
Current Speed 100 km/h
Distance-to-go 1.7 km
ETA 09:25 PM
Main Menu
MACQUARIE STREET

- 2D/3D: Switch the map between 2D and 3D style.


MACQUARIE STREET
50
90
m
Current Speed
50 km/h
Distance-to-go
1.7 km
ETA
09:21 PM
100m
MACQUARIE STREET
Main Menu


MACQUARIE STREET
50
380
m
Current Speed
100 km/h
Distance-to-go
2.0 km
ETA
09:16 PM
100m
MACQUARIE STREET
Main Menu

- Day/Night: Switch the map background between day and night mode.
- HighWay SignPost: When the box is checked, a highway signpost is displayed on the map.
- Voice guidance: When the box is checked, a voice transmits instructions at each turn.

  Note

  - Volume levels of voice guidance can only be changed in navigation mode.
  - Voice guidance prompts can be turned on or off.
  - The volume of voice guidance information cannot be adjusted in relation to other audio sources.
- Auto Zoom: When the box is checked, the map scale adjusts according to driving speed, providing a better view of the map.

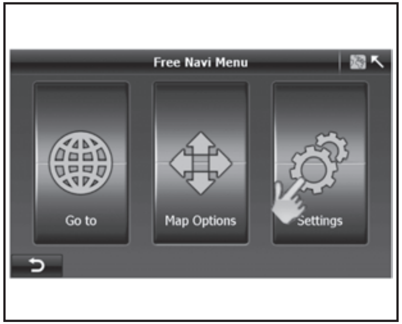
  Uncheck to manually adjust the map scale.
- Simulation Speed: Set a driving speed during a simulated trip.

  Set the range of simulation speed to 50 km/h, 100 km/h, 150 km/h, 200 km/h, 250 km/h or 300 km/h.

Settings

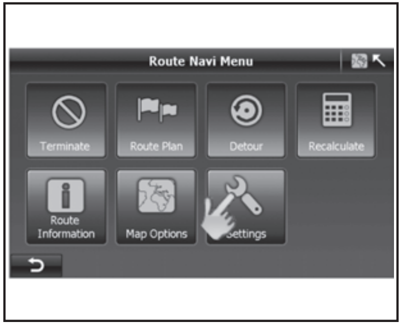
View information or customise the navigation system to your needs.

From the Free Navi Menu:


Free Navi Menu
Go to
Map Options
Settings

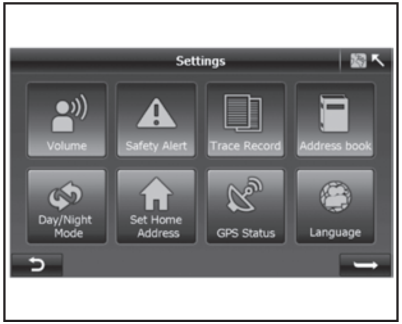
1. Touch **Settings**.

From the Route Navi Menu:

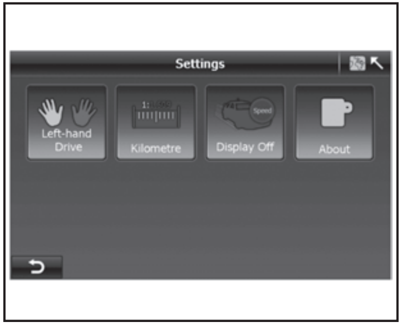

Route Navi Menu
Terminate
Route Plan
Detour
Recalculate
Route Information
Map Options
Settings

1. Touch **Settings**.

The Settings menu is displayed.


Settings
Volume
Safety Alert
Trace Record
Address book
Day/Night Mode
Set Home Address
GPS Status
Language

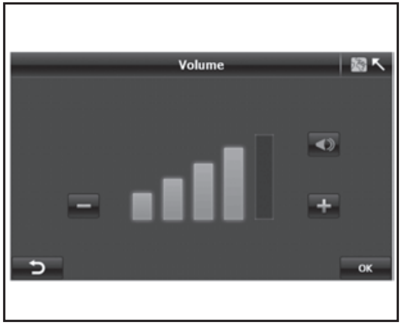
1. Touch ⟶ for more options.


Settings
Left-hand Drive
Kilometre
Display Off
About

2. Touch ⮌ to go back.

Volume

1. Touch **Volume**.



2. Touch **–** to reduce the volume.

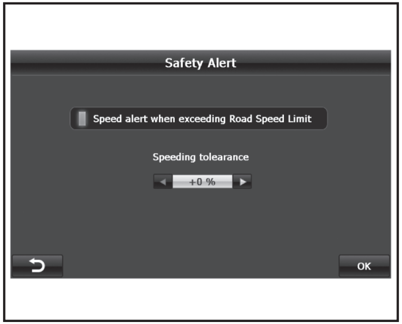
   Touch **+** to increase the volume.

   Touch 🔊 to mute the sound.
3. Touch **OK**.

Safety alert

When the local road speed limit is exceeded, a safety alert may be audible.

1. Touch **Safety Alert**.



Speed alert when exceeding Road Speed Limit

Speeding tolearance +0 %

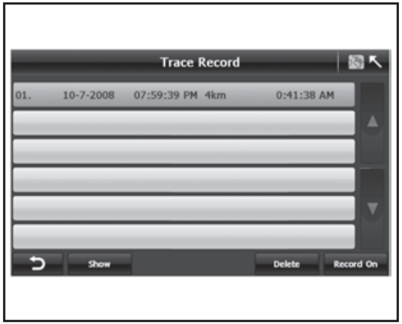
2. Touch the input box to choose to turn the speed alert on or off.

   When the speed alert is on, set the tolerance value to 0%, 5%, 10%, 15% or 20%.

Trace record

All positioning information during navigation is logged. A trail is drawn of the track on the map.

This function is useful when driving in rural areas such as deserts or forests.

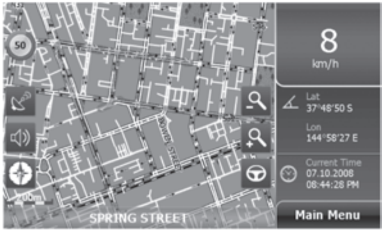


01. 10-7-2008 07:59:39 PM 4km 0:41:38 AM

1. Touch **Record On**.

   All the trace records will be displayed on the screen.

   To close, touch **Record Off**.
2. Select a record.

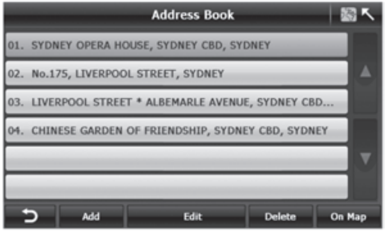

50
8
km/h
Lat
37°48'50 S
Lon
144°58'27 E
Current Time
07.10.2008
08:44:28 PM
Main Menu
200m
SPRING STREET

3. Touch **Show**.

   The trace record is displayed on the map.

Address book

Up to 100 addresses/POIs can be saved.


Address Book
Add
Edit
Delete
On Map

01. SYDNEY OPERA HOUSE, SYDNEY CBD, SYDNEY
02. No.175, LIVERPOOL STREET, SYDNEY
03. LIVERPOOL STREET * ALBEMARLE AVENUE, SYDNEY CBD...
04. CHINESE GARDEN OF FRIENDSHIP, SYDNEY CBD, SYDNEY

To search or add an address/POI:

- Touch **Add**.

To delete a record from the address book:

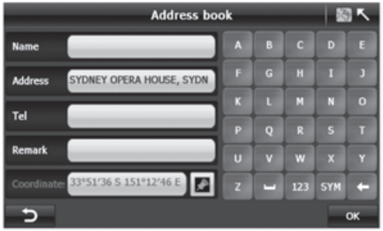
- Touch **Delete**.

To view the address location on the map:

- Touch **On Map**.

To edit an address:

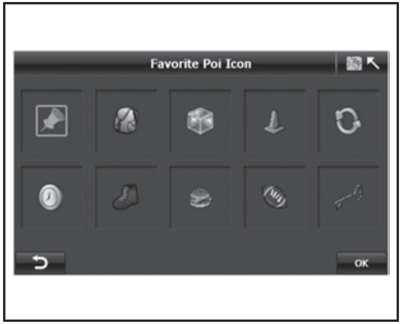
1. Touch **Edit**.


Address book
A B C D E
F G H I J
K L M N O
P Q R S T
U V W X Y
Z 123 SYM
OK

Name
Address SYDNEY OPERA HOUSE, SYDN
Tel
Remark
Coordinate 33°51'36 S 151°12'46 E

2. Touch the input box to be edited.
3. Place the cursor in the input box.
4. Touch the keyboard.
5. Touch **123** or **SYM** to switch keyboards.

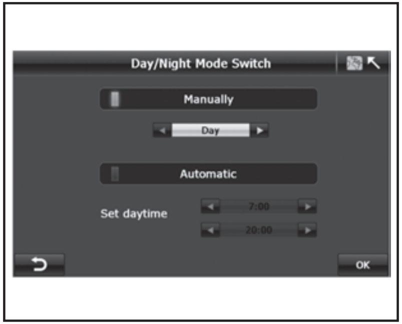
6. Touch 📌.


Favorite Poi Icon
OK

When approaching the POI specified in the address book, a beep will be audible.

Day/night mode switch

Adjust the map colour for day and night.


Day/Night Mode Switch
Manually
Day
Automatic
Set daytime
7:00
20:00
OK

Manual:

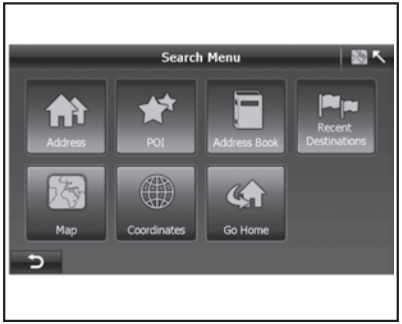
1. Touch **Manually**.
2. Touch ◀ or ▶ to select **Day** or **Night**.

Automatic:

1. Touch **Automatic**.
2. Touch ◀ or ▶ to set the daytime to start between 5.00 - 9.00 am and end between 5.00 - 9.00 pm.

Set home address

1. Touch **Set Home Address**.

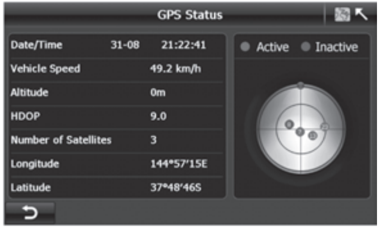

Search Menu
Address
POI
Address Book
Recent Destinations
Map
Coordinates
Go Home

For further information see Using the navigation system on page 108.

GPS status

1. Touch **GPS Status**.

   Alternatively, touch 📡 in the Route Navi Map or the Free Navi map, to access the GPS Status screen.



Date/Time	31-08	21:22:41
Vehicle Speed	49.2 km/h	
Altitude	0m	
HDOP	9.0	
Number of Satellites	3	
Longitude	144°57'15E	
Latitude	37°48'46S	

Positioning information:

Date:

- The current date, e.g. 31-08 (August 31)

Time:

- The current time, e.g. 21:22:41 (9.22 pm)

Vehicle Speed:

- The current speed

Altitude:

- The current altitude

HDOP:

- HDOP (GPS Accuracy): Indicates the quality of the satellite reception. The lower the number, the better the reception quality is.

Longitude:

- The current longitude, e.g. 144°57’15E

Latitude:

- The current latitude, e.g. 37°48’46S

Active:

- GPS has a fixed current position

Inactive:

- GPS does not have a fixed current position

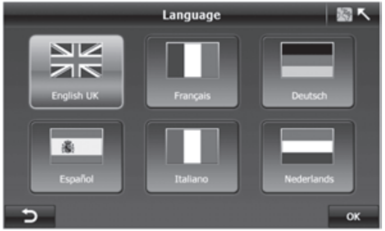
The position of satellites:

- The relative orientation of satellites to the current fix position

Language

Select a voice/program language.

1. Touch **Language**.



2. Touch a language icon.

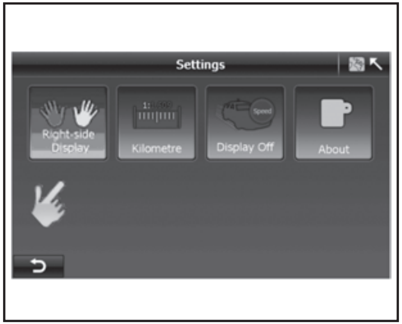
   If the icon is highlighted blue, the language can be selected.

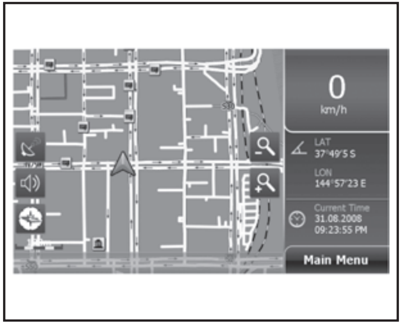
   If the icon is highlighted grey, the language cannot be selected.

3. Touch **OK**.

Right/left side display

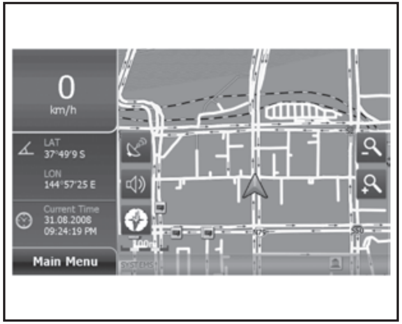
The display can be changed from map-left and data-right to map-right and data-left.


Settings
Right-side Display
Kilometre
Display Off
About


0
km/h
LAT
37°49'5 S
LON
144°57'23 E
Current Time
31.08.2008
09:23:55 PM
Main Menu

- Touch the button to switch right side display on.

  Left-side Display is displayed on the button.

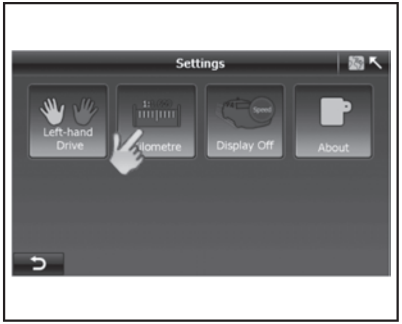

0
km/h
LAT
37°49'9 S
LON
144°57'25 E
Current Time
31.08.2008
09:24:19 PM
Main Menu

- Touch the button to switch right side display off.

  Right-side Display is displayed on the button.

Measure unit

Set the unit for distance to either kilometres or miles.



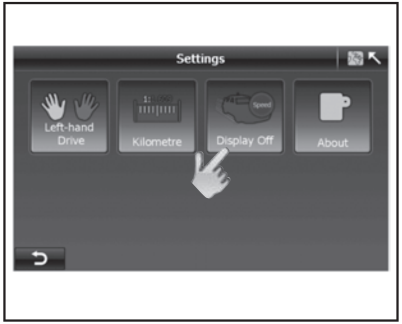
- Touch the button to switch to kilometres.

  Kilometre is displayed.
- Touch the button to switch to miles.

  Mile is displayed.

Driving speed display

Generally the vehicle speed is displayed on the navigation map, however vehicle speed is not always correct due to the navigation system signal deviation.



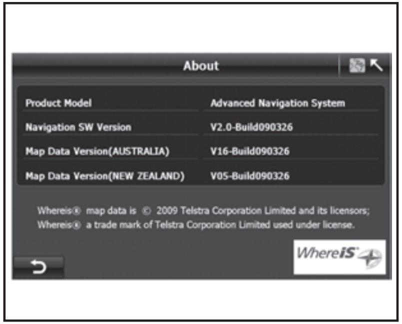
- Touch the button to switch the vehicle speed display off.

  Display Off is displayed on the button.
- Touch the button to switch the vehicle speed display on.

  Display On is displayed on the button.

About

View information about the navigation system.



Product Model	Advanced Navigation System
Navigation SW Version	V2.0-Build090326
Map Data Version(AUSTRALIA)	V16-Build090326
Map Data Version(NEW ZEALAND)	V05-Build090326

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- Product model
- Navigation SW version
- Map data version (Australia)
- Map data version (New Zealand)

Point of Interest symbols (POI)

All POI
Accommodation
Camping Ground
Hotel or Motel
Airport
Airline Access
Car Services
Car Dealer
Car Repair Facility
Rent-a-Car Facility
Rent-a-Car Parking
Parking
Rest Area
Community
Cemetery
College/University
Courthouse
Government Office
Place of Worship
Police Station
Company
Convention Centre
Exhibition Centre
Services
Cash Dispenser
Bank
Post Office
Leisure
Amusement Park
Beach
Casino
Cinema
Concert Hall
Library
Museum
Music Centre
Night Life
Opera
Park and Recreation Area
Theatre
Medical
Doctor
Hospital Or Polyclinic
Pharmacy
Petrol Station
Petrol station (24hr)
Petrol station (not 24hr)
Food&Drink
Restaurant
Café/Pub
Shopping
Shop
Shopping Centre

Sport

Golf Course

Sports Centre

Stadium

Water Sports

Tourist Attractions

Important Tourist Attraction

Mountain Pass

Mountain Peak

Tourist Info. Office

Transportation

Ferry Terminal

Public Transport Stop

Railway Station

Toll Gate

Yacht Basin

Problems with route guidance

The following may occur:

- Guidance may be to a no through road.
- The route may be re-calculated without changing the proposed route.
- Guidance may be to a normal road instead of a tunnel or vice versa.
- If there are only minor roads near the destination, guidance may only be to a place near to the destination.
- An instruction to make a U-turn.
- There may be no indication at a branching road.
- Turning instructions may not match the actual road condition.
- There may be no indicated direction or voice prompt about an entrance/exit while guiding on the highway/freeway.
- The schematic map may not match actual road conditions.
- The guided distance calculated may deviate from the actual distance.

Difficulties receiving navigation signals may occur:

- In tunnels
- Between high buildings
- Under bridges
- In trees/forests

Vehicle positioning

The car position icon, see page 104, location may vary before the navigation signal is received:

- When turning the power on
- When using the system for the first time
- Occasionally, when driving on a freeway or through a tunnel
- When driving on a very steep road
- When driving on a twisting road
- If swerving on a wide road
- When returning to ground level after driving in an underground car park or a multi-level car park
- When returning from a road which is newly constructed to a road recorded in a map file
- When making a right/left turn to enter a road that has parallel roads nearby (less than 50 m distance), the car position icon, may go to another road.
- When in a rotary elevator, the arrow of the car position icon may not point in the correct direction.

Continue driving and the system will adjust to the correct position.

Bluetooth®

General information

Bluetooth® allows users with a Bluetooth® enabled mobile phone to make and receive hands-free calls using the vehicle's infotainment system and controls.

The Bluetooth® enabled mobile phone must be paired to the vehicle's infotainment system before it can be used in the vehicle.

Not all phones will support all functions. For more information visit: www.holden.com.au

The *Bluetooth*® word mark and logo are registered trademarks and are owned by the Bluetooth SIG, Inc.

⚠Warning

Do not use a mobile phone when driving.

Make sure that Bluetooth® is activated before driving. If not stop at a safe place to use a mobile phone.

Pairing a device

1. Press ᛒ (I).

   See Overview on page 86.
2. Press (B) below PAIRING.

   Waiting for Pairing is displayed on the audio display screen.
3. Initiate pairing on the device.
4. Search for **CAR AUDIO** on the device.
5. Enter the Pairing Key displayed on the audio display screen, into the device.

   Connected is displayed on the audio display screen.

Bluetooth® connection

Auto connection

The audio system will attempt to connect to the previous Bluetooth® device automatically when the audio system is switched on.

The audio system will attempt to connect to the Bluetooth® device automatically.

If the device does not automatically connect:

1. Ensure that the Bluetooth® device is paired with the vehicle. See Pairing a device on page 135.

If the device has previously been paired with the vehicle:

2. Press ᛒ (I).
3. Activate the CAR AUDIO connection on the device.

   Connected is displayed on the audio display screen.

Telephone operation

Make a call

Note
Only the last number called may be dialled.

1. Press (B) below CALL.
2. Press (B) below LAST CALL.

   Dialling... and **Connected** is displayed on the audio display screen.

Incoming call

- **Incoming Call...** is displayed on the audio display screen for 3 seconds.
- **Incoming call number** is displayed on the audio display screen until the ANSWER or DECLINE button is pressed.

1. Press (B) below ANSWER.
2. Alternatively, press (B) below DECLINE to return to the last mode.

On the line

To mute the phone and microphone:

1. Press (B) below MIC MUTE.

To change to private mode (take call on handset):

1. Press (B) below PRIVATE.

   Alternatively, press ⏻ (K).

To exit from private mode:

1. Press (B) below PRIVATE.

   Alternatively, press ⏻ (K) to turn the audio system on.

To end the call:

1. Press (B) below HANG UP.
2. Press (B) below:

   ►: to play a track

   II: to pause the currently playing track

   ▲: to move to the next track

   ▼: to play the previous track

Bluetooth® streaming

Play, pause or play next/previous tracks from the MP3 files on your phone.

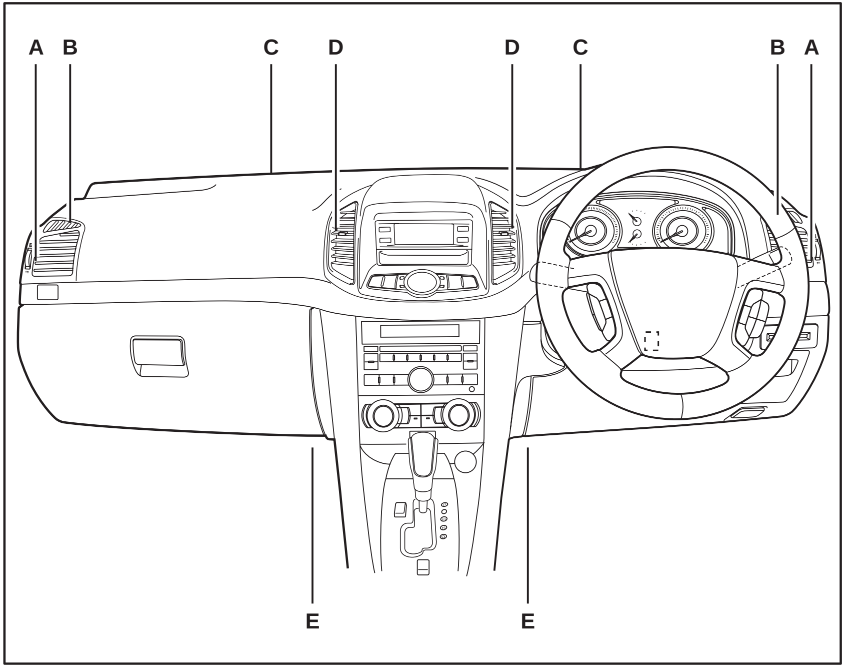
1. Press (B) below AUDIO PLAY.

Note
Not all devices will support all functions.

Climate control

Climate control systems 137
Air vents.....................................145
Maintenance...............................146

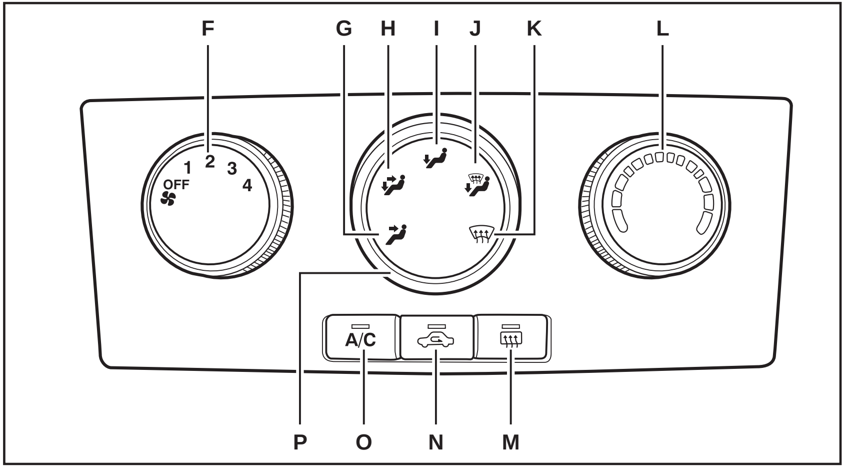
Climate control systems



A. Side vents
B. Window demister vents
C. Windscreen demister vents
D. Centre vents
E. Floor vents

Manual air conditioning system

The vehicle may have a manual air conditioning system.



F. Fan speed selector
G. Face level
H. Face and floor level
I. Floor level
J. Floor level and demister
K. Windscreen demister
L. Air temperature selector
M. Rear window demister
N. Recirculation
O. Air conditioning
P. Air outlet selector

Fan speed selector

- Select one of five fan speed (F) settings:

  OFF, **1**, **2**, **3** and **4**
- Rotate clockwise to increase fan speed
- Rotate anticlockwise to decrease fan speed

Air outlet selector

Rotate the air outlet selector (P) to:

- to direct air through the side and centre vents
- to direct air through the side and centre vents and the front and rear floor vents
- to direct air through the front and rear floor vents

  Some air is directed through the windscreen demister vents and window demister vents.
- to direct air through the windscreen demister vents and the front and rear floor vents

  A small amount of air is directed through the window demister vents.
- to direct air through the windscreen demister vents

  A small amount of air is directed through the window demister vents.

Air temperature selector

Rotate the air temperature selector (L) to the red area for warmer air or to the blue area for cooler air.

Rear window demister

- Turn the ignition key to **ON**.
- Press (M) to switch the rear window demister on or off.

  The light on the button illuminates when on.
- The rear window demister switches off automatically after 10 minutes.
- The vehicle has heated exterior mirrors.

  The mirrors are heated whenever the rear window demister is on.

Do not use the rear window demister when the engine is not running.

⚠Warning

Less than clear vision for the driver can lead to an accident resulting in personal injury and damage to the vehicle or other property.

Recirculation

Recirculate air within the passenger compartment to keep dust and odours out or when quick heating or cooling is required.

- Press (N) to switch recirculation on or off.

  The light on the button illuminates when on.
- Switch recirculation off to allow outside air into the vehicle.

Note
Do not use recirculation for an extended period of time. The windows may fog up.

Air conditioning

1. Turn the ignition key to **START**.
2. Set the fan speed (F) to **1**, **2**, **3** or **4**.
3. Rotate the air temperature selector (L) to warm or cool air.
4. Press **A/C** (O) to switch the air conditioning on.

   The light on the button illuminates.
5. Press **A/C** (O) again to switch the air conditioning off.

Note

- Switch the air conditioning on for a few minutes at least once a week to lubricate the system, even in winter.
- Driving in stop-and-go traffic may reduce the effectiveness of the air conditioning system.
- Keep the area under the front seats clear of objects to help air circulate through the vehicle.

Windscreen demister

To demist the front windscreen quickly:

1. Rotate the air outlet selector (P) to .
2. Rotate the air temperature selector (L) to warm.
3. Rotate the fan speed selector (F) to the maximum speed.

Note

- Windscreen demister mode will operate with the air conditioning on or off.
- Do not use the demisting mode in extremely humid weather with the temperature control set to cold.

Maximum heating

Use maximum heating for quick heating of the passenger compartment.

1. Press (N).
2. Rotate the fan speed selector (F) to the maximum speed.
3. Rotate the air outlet selector (P) to or .
4. Rotate the air temperature selector (L) to hot.

Note

- Do not use maximum heating for an extended period of time. The air may become stale and/or the windows may fog up.
- To clear the windows, switch recirculation off to allow fresh air into the passenger compartment.

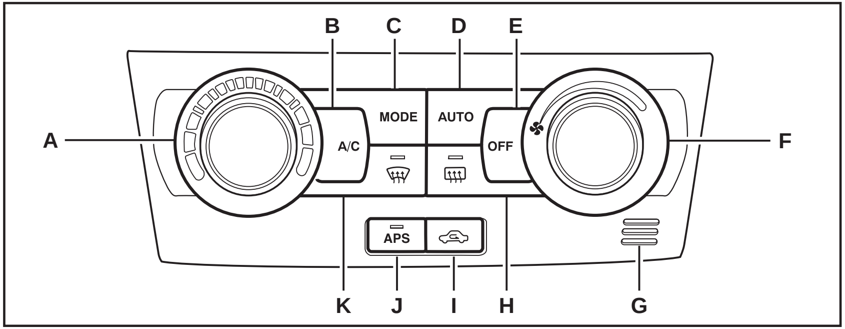
Maximum cooling

Use maximum cooling for quick cooling of the passenger compartment.

1. Press **A/C** (O) to switch the air conditioning on.
2. Press (N).
3. Rotate the fan speed selector (F) to the maximum speed.
4. Rotate the air outlet selector (P) to or .
5. Rotate the air temperature selector (L) to cold.

Automatic climate control system

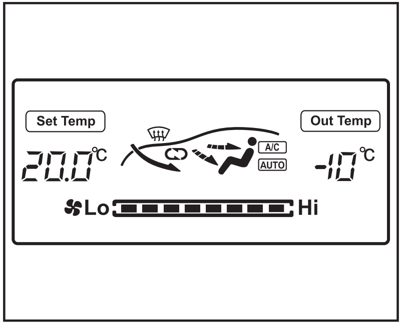
The vehicle may have an automatic climate control system.


B
C
D
E
MODE
AUTO
A
A/C
OFF
F
APS
K
J
I
H
G

A. Air temperature selector
B. Air conditioning
C. Mode
D. Automatic climate control
E. Off
F. Fan speed selector
G. Temperature sensor
H. Rear window demister
I. Recirculation
J. Air Purity Sensor (APS)
K. Windscreen demister

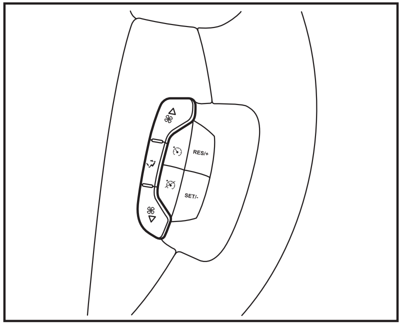
The automatic climate control temperature is controlled by:

- An in-car temperature sensor
- Coolant temperature
- A sun sensor
- An ambient temperature sensor


Set Temp
Out Temp
20.0℃
A/C
AUTO
-10℃
Lo
Hi

The settings are displayed on the information display. See Information displays on page 69.

Steering wheel remote controls



The vehicle may have climate control buttons on the driver side of the steering wheel.

: Press to change the direction of airflow.

△ ⌘ ▽ : Press to increase or decrease the fan speed.

The settings are displayed. See Information displays on page 69.

Air temperature selector

Set the air temperature selector (A) between 18 ºC and 32 ºC by:

- Rotating clockwise to increase the temperature
- Rotating anticlockwise to decrease the temperature

  The temperature is displayed on the information display.

Note
When the temperature is set to either **LO** or **HI** the fan operates at the highest speed.

Air conditioning

- Press **A/C** (B) to switch the air conditioning on.

  ❄ illuminates on the information display.
- Press **A/C** or **OFF** to switch the air conditioning off.

Mode

Press **MODE** (C):

- To cancel the automatic function
- The air distribution mode is changed in the following sequence:

  FRONT
  BI-LEVEL
  FLOOR
  FLOOR/DEMIST

  The air distribution direction arrows are displayed on the information display.
- For air flow directions, see Air outlet selector on page 139.

Automatic climate control

- Set a temperature by rotating the air temperature selector (A).
- Press **AUTO** (D).

  AUTO illuminates on the information display.

  Air distribution mode, fan speed, air conditioning and recirculation are controlled automatically.

Off

To switch the automatic climate control system off:

- Press **OFF** (E).

Fan speed selector

- Rotate the fan speed selector (F) clockwise to increase the fan speed.
- Rotating the fan speed selector (F) anticlockwise towards ✻, cancels automatic climate control.

Temperature sensor

The temperature sensor (G) responds to temperature levels within the passenger compartment, to regulate the temperature when in **AUTO** mode.

Rear window demister

- Press ▭ (H) to switch the rear window demister on or off.

Recirculation

- Press ⟲ (I) to recirculate air within the passenger compartment.

  ⟲ illuminates on the information display.
- Press ⟲ (I) again to switch recirculation off.

  Outside air enters the passenger compartment.

  The outside air direction arrow is displayed on the information display.
- See Unsealed roads on page 146.

Air Purity Sensor (APS)

The APS automatically switches from outside air to recirculation, to prevent exhaust gas from outside, entering the passenger compartment.

- Press **APS** (J) to switch the APS on or off.

Note

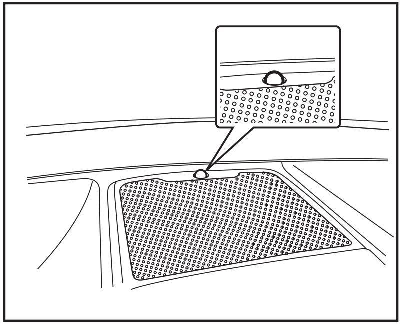
Do not use APS for an extended period of time. The windows may fog up.

Windscreen demister

- Press ⌓ (K).

  A/C and outside air are automatically switched on.
- Adjust the fan speed selector (F).
- Switch the windscreen demister off by pressing ⌓ (K) again, **MODE** (C) or **AUTO** (D).

Sunlight sensor



The sunlight sensor is located in front of the windscreen demister.

- The sunlight sensor responds to sunlight, to regulate the temperature when in **AUTO** mode.
- Do not cover the sunlight sensor.

Air vents

Adjustable air vents

The direction of air flowing out of the vents can be changed by moving the airflow deflectors up, down, left or right.

Some vents may have a shut off wheel. See Climate control systems on page 137.

Centre vents

Rotate the wheel horizontally to open and close the vent.

Side vents

Rotate the wheel upwards to close the vent or downwards to open the vent.

Demister vents

Demister vents are located at the base of the windscreen and are controlled by the air outlet selector (P).

Floor vent

Floor vents are located under the dashboard. They are controlled by the air outlet selector (P).

Maintenance

Passenger compartment pollen filter

The filter removes contaminants such as pollen and dust from the air entering the vehicle.

Maintenance of the pollen filter is required. Refer to the Service/ Warranty Booklet.

Regular operation

Engine performance/ fuel economy

A small decrease in engine power and a slight increase in fuel consumption will be noticed when the air conditioning is in use.

Quick cool down

When entering the vehicle on a hot day, open the windows for a short time to allow the hot air to escape, before operating the air conditioning.

Water

Water condensation can leave traces of clear water on the ground underneath the vehicle. This is normal.

Unsealed roads (prevention of dust entry)

- When following another vehicle on unsealed roads and the dust is airborne, select recirculation.
- If the dust is not airborne select outside air and set the fan to high speed to help prevent dust entry.
- Ensure in both cases that all windows are closed.
- Do not use recirculation for long periods of time.

Cigarette smoke

Do not use recirculation if occupants are smoking.

Window demisting

For improved window demisting on rainy days or in high humidity, switch the air conditioning on.

Driving and operating

Driving information......................147
Starting and operating 149
Automatic transmission 155
Drive systems 159
Brakes 160
Ride control systems 163
Fuel..174
Towing 179
Conversions and add-ons...........183

Driving information

Before entering the vehicle

Check that windows, mirrors and lamps are clean.

Visually check tyre inflation. Check tyre pressures weekly.

Before driving off

1. Close and secure all doors.
2. Position the seat for comfortable driving.
3. Adjust rear view mirrors.
4. Fasten seat belts.
5. Check that warning indicators illuminate when turning the ignition on. See Warning lights, gauges and indicators on page 59.

Off-road driving

Hose down the front of the vehicle to clear any mud or debris. Make sure both sides of the radiator are clear.

All Wheel Drive (AWD)

The AWD Captiva is designed to maintain a very high degree of comfort, ride, handling and stability. Therefore, ground clearance may not be sufficient to allow the vehicle to be driven over very severe four wheel drive tracks.

For off-road driving, the vehicle is equipped with AWD, increased ground clearance and a traction control system.

Drive slowly and with caution:

- On unfamiliar roads
- Where there are washaways, loose or slippery patches, rocks, fallen tree branches, deep pot holes or ditches

Travel with another vehicle when driving on remote or poor quality roads.

Front Wheel Drive (FWD)

The FWD Captiva is designed primarily for on-road use.

The vehicle may be used on well maintained unsealed (gravel) roads.

Level ride suspension

The vehicle may have level ride suspension.

The level ride suspension system automatically adjusts the suspension level while the vehicle is moving.

When a load is placed in the rear of the vehicle, the suspension is slowly lifted upward to its previous unloaded level.

This improves the ride and handling when the rear of the vehicle is loaded.

Driving on wet roads

Tyre grip

Tyre grip decreases when water, snow, ice, gravel or other materials are on the road. Adjust your driving to the road conditions:

- Reduce speeds during wet conditions.
- Replace tyres when tread wear indicators are visible. See Tread depth on page 216.
- Regularly check that tyres are properly inflated. See Wheels and tyres on page 214.

Mud and snow tyres

⚠Warning

The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the Electronic Stability Control (ESC) system.

When fitted with winter tread tyres, the vehicle should not be driven at speeds in excess of the tyre category symbol as moulded on the tyre, or in the absence thereof, at high speeds.

Starting and operating

New vehicle running-in

To assist the vehicle's future performance and economy use the following precautions:

- Always drive at a moderate speed until the engine has completely warmed up.
- For the first 500 km:

  Do not exceed 90 km/h.

  Avoid making hard stops except in an emergency to avoid premature wear and early replacement of brakes.
- Up to 1,500 km, avoid driving at any one speed, either slow or fast, for any length of time. Include some higher speeds within the legal speed limit.
- Drive the vehicle for 1,500 km before towing a load. See Running-in when towing on page 182.
- For AWD vehicles, do not tow heavy loads off-road before 1,500 km.

Brakes

- Do not let the vehicle run down hills, or coast with the engine off, as the power assistance does not operate.
- A decrease in traction occurs when water, snow, ice, gravel or other materials are on the road surface.

  Adjust driving and vehicle speed to suit the road conditions.
- Driving through water may affect performance.

  Apply the brakes lightly to check whether they have been affected.

  To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear distance ahead until brake performance returns to normal.
- Ensure that nothing is under the brake pedal which could limit their use, such as poorly fitting floor mats.
- Position the driver's seat so the brake pedal can be operated under all braking conditions.

Power steering

- The power steering fitted to the vehicle has been designed to reduce steering effort.
- Do not turn and hold the steering wheel in the fully turned position when stationary.
- If power steering is not working, due to the engine stalling for example, the vehicle can still be steered. Have the steering repaired as soon as possible by a Holden Dealer.

Speed Sensitive Power Steering (SSPS)

- The SSPS system varies the driver effort required to steer as the vehicle speed changes.
- At low speeds the system provides maximum assistance for easy turning and parking.
- At higher speeds the assistance is reduced to provide firmer steering and directional stability.
- If ⊙! illuminates, the effort required to steer will increase. Contact a Holden Dealer as soon as possible. See Warning lights, gauges and indicators on page 59.

Loading the vehicle

Loading the vehicle changes handling when driving. See Vehicle weight on page 240.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Secure in the rear load area.

⚠Warning

Portable gas cylinders can leak, creating a risk of fire or explosion.

As a precaution, ensure adequate ventilation when carrying gas cylinders.

They must be restrained from rolling around and where possible, placed in the rear load area of the vehicle.

It is recommended that if gas cylinders are frequently transported that a purpose-built carrying compartment be used.

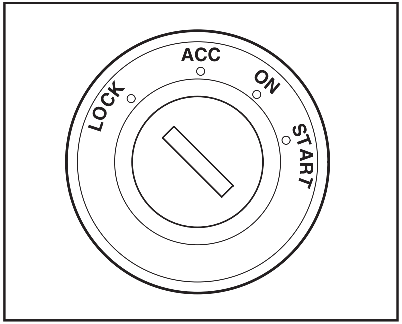
Ensure any transportation of gas cylinders complies with the applicable regulations.

Ignition positions

⚠Warning

Do not turn the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.



LOCK: When the key is in the LOCK position, some electrical accessories and the engine are off.

The key can only be inserted and removed from the LOCK position.

The engine is automatically disabled shortly after removing the key from the ignition.

The steering wheel is automatically locked when the key is removed.

To release the steering lock, re-insert the key and turn it towards the front of the vehicle. If still locked, turn the steering wheel slightly to the right or left while turning the key towards the front of the vehicle.

ACC: When the key is in the ACC (accessories) position, the audio system will still operate.

ON: When the key is in the ON position, the engine is ready to start and all electrical systems are active.

Note

- Warning lamps will illuminate. See Warning lights, gauges and indicators on page 59.
- Do not leave the switch in the ON position for a long time, unless the engine is running, otherwise the vehicle's battery will discharge.
- Diesel engine: ꝏ illuminates until the diesel preheating (glow plugs) system is ready. Once ꝏ extinguishes, turn the key to the START position. See Starting the engine on page 152.

START: Petrol engine: Turn the key to the START position momentarily and then release.

The engine starts automatically.

Diesel engine: Turn the key to the START position until the engine starts.

The key automatically returns to the ON position when released.

Retained Accessory Power (RAP)

The following accessories may be used for up to 10 minutes after the ignition key is turned to **LOCK**:

- Outside mirror
- Power windows
- Radio
- Centre console power sockets

Note

The outside mirror and power windows will operate until a door is opened.

The audio system will function until the driver's door is opened.

Starting the engine

1. Apply the park brake. Release it only after starting the engine and you are ready to drive off.
2. Move the shift lever to position **P** or **N**. The engine will not start if the shift lever is in any other position.

   As a safety precaution, have your foot on the brake pedal to move the shift lever out of position **P**.
3. Starting the engine:

   For cold or hot starting, the procedure is the same.

   Do not touch the accelerator pedal.

Petrol engine:

1. Turn the ignition key to **START** momentarily and then release it.
2. The engine starts automatically.
3. The key automatically returns to the **ON** position when released.

Diesel engine:

1. Turn the ignition key to **ON**.

When ꝏ extinguishes:

2. Turn the ignition key to **START** until the engine starts.

   The key automatically returns to **ON** when released.

Note

- The diesel preheating (glow plugs) system switches on only if the outside temperature is low.
- If the engine does not start within 10 seconds, wait another 15 seconds to let the starter motor cool down.
- Turn the ignition key to **START** again with the accelerator pedal pushed to the floor, for a maximum of 10 seconds.
- If the engine still does not start, release the key and pedal.

  Wait another 15 seconds, then repeat the entire procedure.
- If the engine still fails to start, contact a Holden Dealer.

Engine will not crank or start

1. Turn the ignition key to **off** and remove the key.
2. Insert the key and start the engine again.

   Note

   If 🔒 illuminates while starting the vehicle, a fault may have occurred. Contact a Holden Dealer to have the fault repaired.

⚠Warning

Petrol engine: When starting the engine, do not hold the key in the start position for any extended time. If unburnt fuel were to reach the catalytic converter and ignite, the catalytic converter could overheat or be destroyed by backfire.

Note
Do not subject the engine to full throttle acceleration or high speeds until it has reached normal operating temperature. Premature engine wear or damage may result.

Automatic transmission shiftlock control system

The vehicle has a Brake-Transmission Shift Interlock (BTSI) system.

The shift lock release is designed to:

- Prevent ignition key removal unless the shift lever is in **P** with the shift lever button fully released.
- Prevent movement of the shift lever out of **P**, unless the engine is on and the brake pedal is applied.

Note
The shift lock release is always functional unless the battery is discharged or has low voltage.

To shift out of **P**:

1. Apply the brake pedal.
2. Press the shift lever button.
3. Move the shift lever to the desired position.

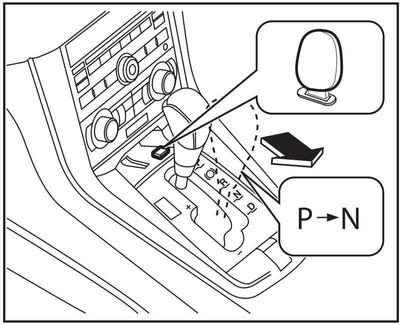
If still unable to shift out of **P**:

1. Release the shift lever button.
2. Press and hold the brake pedal.
3. Press the shift lever button again.
4. Move the shift lever to the desired position.

If the shift lever still cannot be moved, use the manual release. See Shiftlock manual release on page 154.

Shiftlock manual release

1. Turn the ignition to **LOCK** and remove the key.
2. Press and hold the brake pedal.



3. Remove the mat in front of the shift lever.
4. Insert and press the ignition key into the transmission shiftlock slot.
5. Move the shift lever to **N**.
6. Remove the key from the slot.
7. Replace the mat.
8. Start the engine and move the shift lever into any position.
9. Have the vehicle repaired by a Holden Dealer as soon as possible.

Note

- If the shift lever is returned to **P**, the above procedure will need to be repeated to move the shift lever into **N**.
- The above procedure will need to be carried out if the vehicle has a flat battery and requires towing. Refer to Towing a disabled vehicle on page 228.

Parking

1. Apply the park brake.

   Before leaving the vehicle, ensure Ⓟ is illuminated on the instrument panel. See Electric Park Brake (EPB) on page 161.
2. Move the shift lever to position **P**.
3. Shut all windows.
4. Switch off all exterior lamps.
5. Turn the ignition key to **OFF** and remove the key.
6. Lock all doors.

⚠Warning

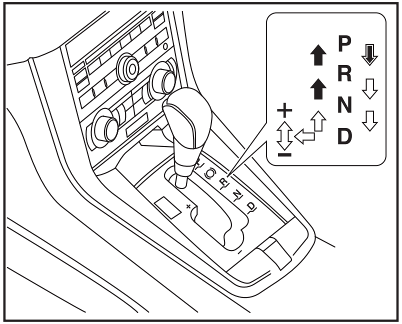
To avoid the possibility of injury, always apply the park brake before exiting the vehicle.

Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with the hot exhaust system.

Never leave the engine running in an area such as a closed garage or underground car park.

Automatic transmission

Shift lever positions



Always have your foot on the brake pedal when shifting out of **P** or **N**.

P: In park position, the wheels are locked. The vehicle may be started from the **P** position. Do not select **P** until the vehicle has stopped. Apply the park brake before leaving the vehicle.

Note

The vehicle has Brake Transmission Shift Interlock (BTSI). To move the shift lever out of position **P**, have the ignition turned on and depress the brake pedal. If the vehicle's battery is flat, see Automatic transmission shiftlock control system on page 153.

R: Place in reverse gear only when the vehicle is stationary and the ignition is turned on. The reverse lamps will illuminate. Ensure the vehicle has stopped before selecting a forward gear.

N: In neutral the vehicle is out-of-gear.

D: Used for general driving. The transmission moves from first through to sixth gear depending on driving conditions while maintaining optimum fuel economy.

Sixth gear is overdrive which reduces engine speed and noise levels while increasing fuel economy.

Shifting between gears

Movement between certain gear positions requires pressing the select button on the front of the shift lever.

When the ignition is turned on, depress the brake pedal and press the select button as indicated by the black or white arrows as follows:

➾ Apply the brake pedal and press the select button on the shift lever to shift.

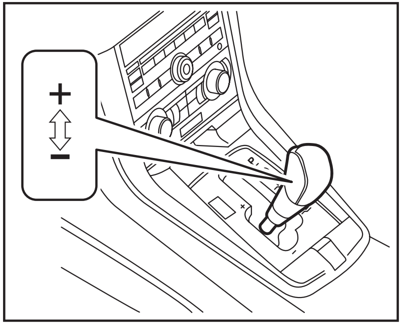
➡ Press the select button on the shift lever to shift.

⇨ It is not necessary to apply the brake pedal or press the select button on the shift lever to shift.

⚠Warning

You can select some transmission positions without pressing the select button on the shift lever. However, it is recommended that you become familiar with these positions to prevent any accident or damage to the transmission that may occur due to incorrect operation.

Active select mode



- To enable active select mode, move the shift lever to position **D** then push the lever to the left.
- To return to position **D**, push the shift lever back to the right.

Active select:

- Can be enabled when the vehicle is stationary or in motion.
- Allows gearshifts with the accelerator pedal depressed.

In active select mode:

- Moving the shift lever backwards (-) and forwards (+) can make rapid gear shifts simple.

  Push the lever forwards (+) once to shift up one gear.

  Pull the lever backwards (-) once to shift down one gear.
- Only the six forward gears can be selected.
- Downward shifts are made automatically when the vehicle slows down.
- When the vehicle stops, first gear is automatically selected.
- To maintain the required levels of vehicle performance and safety, the system may not execute certain gear shifts when the shift lever is operated.
- Before driving away from a stop on a slippery road, push the shift lever forwards (+) into second gear for a smooth start.

  Pull the shift lever backwards (-) to return to first gear.

Fuel economy mode

To improve the vehicle's fuel economy:

1. Press **ECO**.

   The button is located on the passenger side of the shift lever.

   The ECO light on the instrument panel illuminates.
2. To turn ECO mode off, press **ECO** again.

When fuel economy mode is on:

- The transmission will upshift sooner and downshift later.
- The torque converter will lock up sooner and stay on longer.
- The accelerator pedal will be less sensitive.
- Under deceleration, fuel shut off to the engine will be more aggressive.

Note
Do not use fuel economy mode while towing.

Emergency operation

If a problem is detected with the transmission, illuminates. The transmission may not operate normally.

If stays on and the transmission does not shift, contact a Holden Dealer.

Operating notes

- Do not press the accelerator pedal when moving the shift lever into **R** or **D**.
- Shift to a lower gear before descending steep grades.
- Do not rest your foot on the brakes as they may overheat. This is particularly important when towing.
- Take care on slippery surfaces when accelerating, shifting gears or braking. An abrupt change in engine speed, such as sudden acceleration or engine braking, may cause the drive wheels to spin or skid.

- Do not press the accelerator pedal while using the park brake or foot brake, when in **D** or **R**. This may overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope. Use the brakes.
- Do not coast the vehicle in **N**. This reduces control of the vehicle as well as engine braking power.
- The automatic transmission fluid level will be checked when the vehicle is serviced. Refer to the Service/Warranty Booklet.

Transmission kick down

For faster acceleration, press the accelerator pedal all the way down and hold it. The transmission will shift to a lower gear giving more power.

When the desired speed is reached, lift your foot off the accelerator and the transmission will shift up.

Engine braking

Place the transmission into active select mode to select a lower gear, before descending steep grades.

Stopping the vehicle

When stopping the vehicle on a slope, use the park brake or foot brake. Do not hold the vehicle stationary by pressing the accelerator.

Transmission shiftlock control system

The vehicle has a Brake Transmission Shift Interlock (BTSI) system. For operating instructions see Automatic transmission shiftlock control system on page 153.

Drive systems

All Wheel Drive (AWD)

The vehicle may have an AWD system.

- AWD operates automatically without any action required by the driver.
- If the front drive wheels slip, the rear wheels automatically drive the vehicle.
- There may be a slight noise during hard use. This is normal.
- flashes on the instrument panel when the AWD system is temporarily disabled.

  If flashes briefly and then stops, this is normal. It does not indicate a system fault.
- If flashes continuously, a malfunction has occurred. Contact a Holden Dealer.

Difficult conditions

It is better to stop the vehicle well before a hazard and check on foot before driving the vehicle through it.

If the ground is very uneven or rocky, do not grip the steering wheel rim with your thumbs. A sudden steering kickback due to an unseen obstacle could cause injury.

Ensure all luggage and equipment is securely tied down when driving over rough or uneven surfaces.

Snow chains

⚠Warning

You must not use standard snow chains with the part that covers the tyre tread being thicker than 13 mm. The fitting of standard snow chains may cause damage to your vehicle. For available alternatives, contact a Holden Dealer.

Provided the correct snow chains are fitted ensure the following:

- Fit snow chains only to the front wheels.
- Snow chains may only be used at speeds up to 50 km/h.
- When driving on roads that are free of snow, snow chains should only be used for brief periods, as they will wear quickly and may snap.
- The part of the snow chain that covers the tyre tread should not be thicker than 13 mm.

  The use of thicker chains may cause damage to the body of the vehicle.

Mobile phones and CB radios

Mobile phones and CB radio equipment used inside the vehicle:

- Which use an integrated antenna, may cause interference and temporarily affect the vehicle's electronics

  Permanent damage is unlikely
- That use an antenna fitted to the outside of the vehicle, should be used whenever possible

If phones or CB radios with an integrated antenna must be used inside the vehicle, avoid operating near the instrument panel.

Water crossing

Before crossing water:

- Switch off the air conditioning.
- Do not attempt to drive through water more than 300 mm deep.
- Never drive into fast running water. The force of the water can easily move the vehicle sideways, possibly into deeper water.

Deep water

- Drive very slowly through deep water. Driving too fast may cause water to enter the engine and cause major damage.
- Immediately after driving through deep water, drive slowly and check the brake pedal force.

  If the brakes are wet, press firmly several times to dry them out quickly.
- If the vehicle is stationary in deep water for an extended time, water may have entered the engine, transmission, differentials and wheel bearings. Contact a Holden Dealer as soon as possible.

Brakes

Antilock Brake System (ABS)

The ABS:

- Continuously monitors the vehicle's braking system preventing the wheels from locking up.
- Allows maximum braking effort while full steering control is retained, even in the event of panic braking.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

Operation

ABS operation is noticeable by pulsing of the brake pedal and the noise of the regulation process.

The initial self-check may also be audible.

Keep the brake pedal fully pressed throughout the braking process, without pumping it. Pumping the brake pedal can reduce brake efficiency.

Caution

When the ignition is turned on, the (ABS) is illuminated for a few seconds.

If (ABS) does not extinguish, or illuminates when driving, a malfunction has occurred.

Note The vehicle's brake system remains operational, but without ABS assistance. Have a Holden Dealer check the system as soon as possible.

Brake pedal

Where possible, avoid braking hard.

Smooth operation of the brake pedal will increase the life of the brakes and reduce wear.

If the brakes do not operate normally, contact a Holden Dealer.

Electric Park Brake (EPB)

The vehicle has an Electric Park Brake (EPB).

⚠Warning

Driving while (!) is on may cause injury to yourself and others. Have the brake system checked immediately if this occurs.

- The EPB can be activated when the ignition is on or off.
- The switch is located in the centre console.
- When the ignition key is turned to **ON**, (P) illuminates.
- If (P) does not come on or flashes:

  Stop the vehicle as soon as possible and contact a Holden Dealer immediately.
- Do not operate the switch repeatedly when the engine is off, to avoid draining the battery.

- Before leaving the vehicle, apply the park brake and ensure (Ⓟ) is illuminated on the instrument panel.

Applying the EPB

1. Lift the switch (Ⓟ) (P) on the centre console. See Instrument panel overview on page 53.

   (Ⓟ) flashes then illuminates on the instrument panel.

   Note
   The sound of the park brake motor may be heard while operating.

If the EPB is applied while the vehicle is in motion:

- A chime sounds.
- The vehicle will decelerate as long as the switch is held in the up position.
- Releasing the EPB switch during deceleration will release the park brake.
- If the switch is held up until the vehicle comes to a stop, the EPB will remain applied.

If (Ⓟ) flashes continuously, either:

- The EPB is only partially applied.
- The EPB is released.
- There is a problem with the EPB:
  1. Release the EPB. See EPB release on page 162.
  2. Apply it again.

  If (Ⓟ) continues to flash:

  1. Do not drive the vehicle.
  2. Contact a Holden Dealer.

If (!) is illuminated, apply the EPB:

1. Lift up on the EPB switch.
2. Hold in the up position.

   Full application of the EPB may take longer than normal.
3. Continue to hold the switch until (Ⓟ) illuminates.

   If (!) illuminates, contact a Holden Dealer.

If the EPB fails to apply:

1. Block the rear wheels to prevent vehicle movement.

EPB release

To release the EPB:

1. Turn the ignition on.
2. Apply and hold the brake pedal.

   If the brake pedal is not applied:

   A chime will sound and will be displayed.
3. Press the EPB switch.

   (Ⓟ) extinguishes.

If (!) is illuminated, release the EPB:

1. Push down on the EPB switch.
2. Hold in the down position.

   EPB release may take longer than normal.
3. Continue to hold the switch until (Ⓟ) extinguishes.

   If (Ⓟ) remains illuminated, contact a Holden Dealer.

Note
Driving with the park brake on can overheat the brake system and cause premature wear or damage to brake system parts.

Ensure that the park brake is released and (!) is off before driving.

Automatic EPB release

The EPB will automatically release if the following occur:

- The ignition is turned on.
- The shift lever is placed into gear.
- An attempt is made to drive away.

Avoid rapid acceleration when the EPB is applied.

Ride control systems

Electronic Stability Control (ESC)

The ESC:

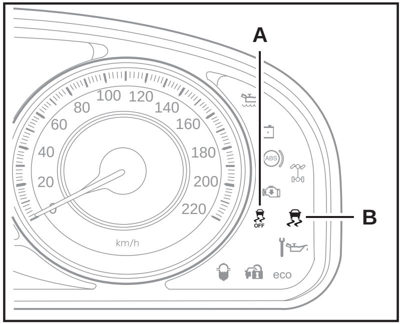
- Is an advanced feature that works in conjunction with the vehicle's ABS and includes the Traction Control System (TCS).
- Improves driving stability in any driving situation.
- Assists in maintaining vehicle stability when the vehicle's grip level is exceeded such as a sudden lane change, slippery or unexpected road conditions.
- Alters engine power and/or braking on specific wheels, improving the vehicle's steering control and power delivery, on wet or slippery roads, particularly on snow and ice.

⚠Warning

The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the ESC system.

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

Operation

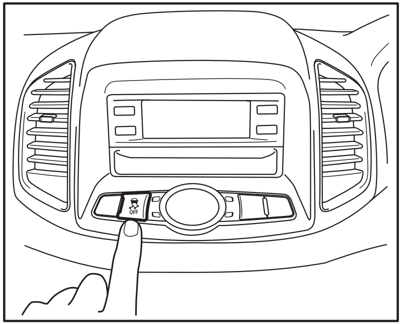


The ESC:

- Operates automatically in very unstable conditions.

  It does not operate under normal driving conditions.
- (B) flashes while the ESC is operating.
- If the lamp remains on, a malfunction has occurred. Contact a Holden Dealer.

Switching ESC on and off



In certain circumstances, it may be helpful to turn the ESC off, e.g. in deep mud or sand or if the vehicle is bogged. It may be possible to get more traction from a slightly spinning wheel.

To turn the ESC off:

- Press OFF.

  OFF (A) illuminates.

Hydraulic Brake Assist system (BA)

BA recognises how rapidly the accelerator is released and the brake pedal is applied.

BA initiates ABS earlier, shortening the stopping distance required.

Electronic Brakeforce Distribution (EBD)

EBD senses the vehicle load (both passengers and luggage) and optimises rear braking force.

EBD works in combination with ABS to prevent excessive braking and locking of the rear wheels. Braking pressure is transferred between the front and the rear axles.

Hill Start Assist (HSA)

The HSA system assists in preventing rollback when driving off, while on an incline.

1. Release the brake pedal.
2. Press the accelerator pedal.

   The brakes remain on for approximately 2 seconds.

Traction Control System (TCS)

TCS uses sensors that detect sudden wheel spin.

If one wheel is about to spin, braking is applied to transfer rotation to a wheel with better traction. This improves performance when starting off and accelerating.

Active Rollover Protection (ARP)

When the vehicle becomes extremely unstable, ARP helps maintain stability by detecting excessive vehicle roll.

ARP maximises the brake force on the wheels, slowing the vehicle down and reducing the amount of vehicle roll.

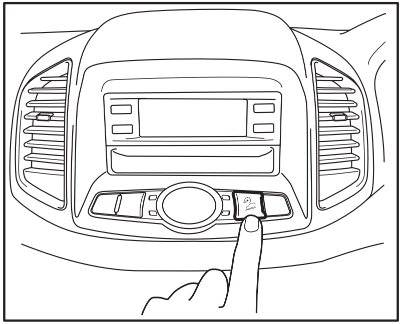
Descent Control System (DCS)

The DCS:

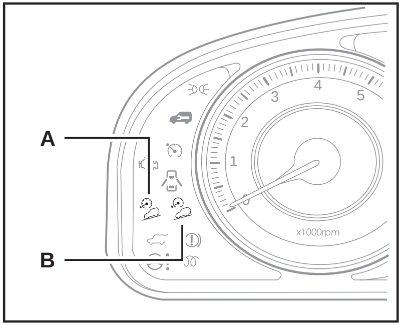
- Is only for driving down steep gradients
- Works in conjunction with the ABS to maintain the slow speed descent of the vehicle
- Works in conjunction with the cruise control system
- Can be used when driving forwards or in reverse
- Is designed for off road driving when moving over steep gradients
- May malfunction if used unnecessarily

  Do not use DCS when driving on normal roads
- When activated, causes strong vibrations and noise from the brake system

DCS on



To activate the DCS:



- Press .

  (B) illuminates green on the instrument panel

  During operation, (B) flashes

Note
Do not press the accelerator pedal when DCS is activated.

Caution
If stopping the vehicle on a slope or slowing to less than 5 km/h, the brake pedal can be pressed. It will briefly deactivate the DCS. DCS will re-activate a few seconds after the brake pedal is released.

DCS not ready warning

If (A) illuminates amber on the instrument panel, a malfunction has occurred. Contact a Holden Dealer.

DCS off

To deactivate the DCS:

- Press again.

  extinguishes.

Target vehicle speeds

If the DCS is activated:

- From a standing start or up to 10 km/h. The target vehicle speed will be approximately 9 km/h
- When the vehicle speed is between 10 km/h and 30 km/h, the target vehicle speed will be approximately 15 km/h

Note

- The DCS will not operate when the vehicle speed is over 50 km/h.
- If the DCS is activated between 30 km/h and 50 km/h the system will remain in standby mode.

  DCS will not slow the vehicle.
- For the DCS to actively slow the vehicle to its target speed, the vehicle's speed must be below 30 km/h.

Cruise control

The vehicle may have cruise control.

The cruise control:

- Maintains the vehicle's speed without pressure on the accelerator pedal
- Will only operate at speeds above approximately 40 km/h
- Controls are located on the driver side of the steering wheel
- Disengages by pressing the brake pedal, pressing or
- Disengages when Traction Control (TC) begins to limit wheel spin. Switch the cruise control back on when road conditions allow.

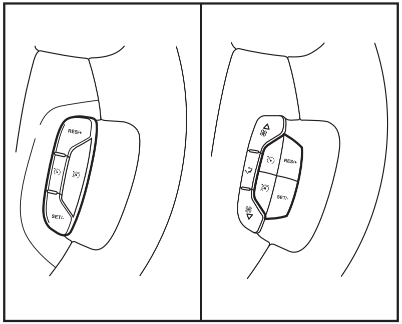
⚠Warning

Do not use the cruise control when road or driving conditions require varying speeds. A consistent speed isn't practical in heavy, varying traffic or on winding, slippery or rough roads.

The cruise control does not apply the vehicle's brakes. Therefore the vehicle may gain speed when going down steep hills.

When climbing steep hills (particularly when towing) it is possible for the vehicle to lose speed. You may need to switch off the cruise control and use the accelerator pedal.

Steering wheel remote controls



The cruise control buttons are located on the driver side of the steering wheel.

⏲ **(On/off)**

RES/+ (accelerate/resume): The vehicle resumes the previously set speed. When held the vehicle accelerates.

SET/- (set/coast): Press to set the speed, activate cruise control or decelerate.

⊘ **(Cancel)**: Press to disengage the cruise control without erasing the set speed from memory.

Setting cruise control

Note

Ensure ⏲ is off when cruise control is not in use.

1. Press ⏲.
2. Accelerate to the desired speed (above 40 km/h).
3. Press **SET/-** and release.

   ⏲ illuminates on the instrument panel.
4. Take your foot off the accelerator pedal.

Resuming a set speed

A set speed is stored and is able to be resumed if the brake pedal or ⊘ has been pressed.

When the vehicle’s speed is above 40 km/h, press **RES/+** briefly to resume the stored speed.

Note

- If **RES/+** is pressed and held, the vehicle’s speed will increase until the button is released, the brake pedal is applied or ⊘ is pressed.
- Do not hold **RES/+**, unless you want the vehicle to go faster.

Increasing speed

If the cruise control system is already activated, either:

1. Press the accelerator pedal.

   Press **SET/-**.

   Release **SET/-** and the accelerator pedal.

2. Press and hold **RES/+** until the desired speed is reached.

   Release **RES/+**.

3. To increase the vehicle speed in small amounts:

   Briefly press **RES/+**.

   Release **RES/+**.

   Each increase is approximately 2 km/h.

Reducing speed

If the cruise control system is already activated:

1. Press **SET/-** until the lower speed is reached.

   Release **SET/-**.

2. To decrease the vehicle speed in small amounts:

   Briefly press **SET/-**.

   Each decrease is approximately 2 km/h.

Passing another vehicle

Press the accelerator pedal to increase the vehicle speed.

To return to the set speed, remove your foot from the accelerator pedal.

Using cruise control on hills

When driving up a hill, press the accelerator pedal to maintain the set speed.

When driving down a hill, press the brake pedal or shift to a lower gear to decrease the vehicle's speed.

Note
Applying the brakes disengages the cruise control.

Disengaging cruise control

There are three ways to switch cruise control off:

1. Press lightly on the brake pedal.
2. Press ⏲.
3. Press ⊘.

Erasing speed memory

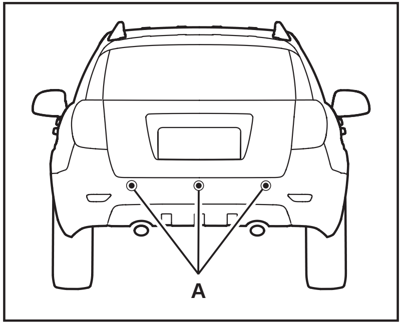
The cruise control set speed memory is erased by pressing ⏲ or the ignition is turned off.

Object detection systems

Park Assist (PA)

The vehicle may have one of the following two systems:

Rear Park Assist (RPA)



This system is able to detect and indicate obstacles at the rear of the vehicle when reversing.

The RPA consists of three sensors (A) on the rear bumper, a control unit and a speaker in the vehicle's interior.

Dual Park Assist (DPA)

This system is able to detect obstacles in the front and the rear of the vehicle when moving forward and reversing.

The DPA consists of sensors on the front and rear bumpers, a control unit and a speaker in the vehicle's interior.

⚠Warning

The driver is always responsible for taking care and attention while manoeuvring the vehicle. The PA is only an aid and is neither intended to, nor able to take over any responsibility.

The park sensors may not be able to detect all objects under every condition e.g. objects too close to the vehicle, objects above or below the sensors, or objects with a surface that absorbs ultrasonic waves. Additionally, some ambient conditions like ultrasonic waves or heavy rain can cause disruptive reflections from an object's surface. Such objects may not be detected.

Always manoeuvre the vehicle slowly to allow yourself sufficient time to react. The warning tones will sound only while the vehicle's speed is below 5 km/h.

Operation

Rear Park Assist (RPA)

The RPA is activated automatically when the following occur:

- The ignition is turned on
- Reverse gear is selected
- The vehicle's speed is below 5 km/h

Dual Park Assist (DPA)

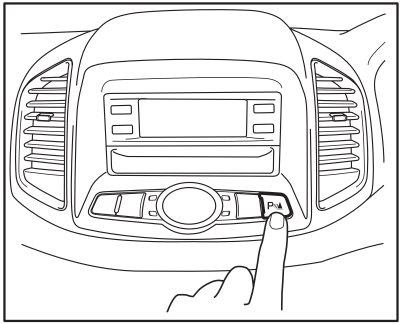
The DPA is activated automatically when the ignition is turned on.

Note

The front and rear speakers are activated together when reverse gear is selected.

Deactivating

The system will be deactivated when the vehicle's speed is above 25 km/h.



To reactivate:

- Press **P)))▲**.

  P)))▲ illuminates.

The system may be manually deactivated when the vehicle's speed is below 25 km/h.

To deactivate:

- Press **P)))▲**.

  P)))▲ extinguishes.

Fault

A fault in the system is indicated by:

- The alarm sounding six times continuously when there are no objects around the rear bumper
- **P)))▲** illuminating on the instrument panel

  Move the vehicle with care and check and clean the sensors.

If the problem persists, contact a Holden Dealer.

Alarm tones

- The front sensors start to detect objects at approximately 80 - 100 cm.
- The rear sensors start to detect objects at approximately 80 - 120 cm.
- Alarm tones sound with a long pause between tones.
- As the vehicle moves closer to the object the pause between the alarm tones becomes shorter.

- When the rear bumper is approximately 30-40 cm from the object the alarm tone sounds continuously. See the following table.

Notes on operation

- A short single confirmation alarm will sound to confirm that the sensors are operational.
- If the sensors receive other ultrasonic signals e.g. metallic sounds or exhaust brake noise from heavy commercial vehicles, the system may not work properly.
- The system may not activate if the sensors are frozen or covered with dirt.
- **P))▲** may illuminate on the instrument panel when the sensors are dirty.

  Clean dirty sensors with a soft sponge and clean water.

  If the warning light remains on, contact a Holden Dealer as soon as possible.

Front warning tones:

Alarm	Sensing distance from bumper	Alarm tone
1st alarm	approx. 80-100 cm	---beep--beep--
2nd alarm	approx. within 40-80 cm	---beep-beep-beep-beep-
3rd alarm	approx. within 30-40 cm	Alarm stays on

Rear warning tones:

Alarm	Sensing distance from bumper	Alarm tone
1st alarm	approx. 80-120 cm	---beep--beep--
2nd alarm	approx. within 40-80 cm	---beep-beep-beep-beep-
3rd alarm	approx. within 30-40 cm	Alarm stays on

- Do not push or scratch the surface of the sensors.
- Do not hit or direct high pressure water directly at the sensors as they may be damaged.
- The system may not operate correctly when the vehicle is driven over uneven surfaces.
- The system may not recognise sharp objects, thick winter clothes or other materials which absorb ultrasonic waves.
- The alarm sounds may be different depending on the object.
- The system will automatically be deactivated when a trailer lighting plug is connected to the vehicle.

  It will activate again when the plug is removed.

  P))▲ will illuminate on the instrument panel while the trailer lighting plug is connected. See Park Assist on page 170.

Rear Vision Camera (RVC)

The vehicle may have a RVC system.

⚠Warning

Never rely solely on the reverse camera when reversing the vehicle.

There is a blind spot that can not be sensed by the rear view camera.

The reverse camera is not intended to replace the driver's judgement or attention toward the rear of the vehicle when reversing.

Before entering the vehicle, always check that the area around the vehicle is clear of obstacles and people.

Always perform head checks and use the vehicle's mirrors when reversing.

If the vehicle sustains any damage in the area of the reverse camera (rear number plate surround), the camera may become misaligned. Contact a Holden Dealer.

Always keep the camera lens free from dirt, snow or ice. Only use mild soap and water with a soft cloth to clean the lens.

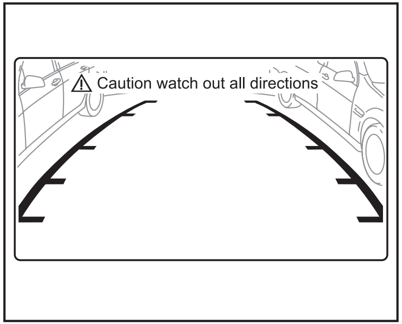
The camera

The camera is located at the top of the rear number plate surround.

The RVC cannot display objects:

- Close to the corners of the bumper
- Forward of the camera
- Higher than the camera

RVC display


⚠ Caution watch out all directions

The camera display appears on the infotainment screen, when reverse gear is selected. See Operating the RVC on page 174.

The area directly behind the vehicle is displayed in real time.

Note

- The distance of objects seen on the screen differs from the actual distance.
- The area displayed on the screen may vary according to vehicle orientation or road conditions.

- Objects of different heights will appear to be different distances from the vehicle.
- The grid on the display is to used as a guide only. It does not represent a set distance from the vehicle.
- The RVC display will override all other operating displays.
- The RVC display may be temporarily interrupted when some audio system or climate control settings are changed.

Operating the RVC

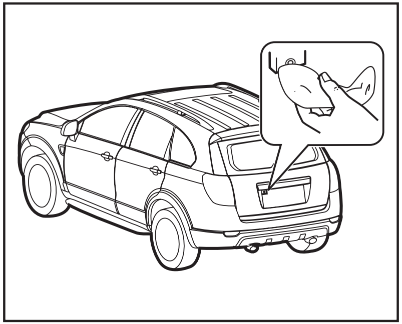
To activate:

1. Turn the ignition key to **ON**.
2. Select reverse gear.

   The camera automatically activates.

Note
When the shift lever is moved to another position, the camera deactivates.

Cleaning



The lens requires regular cleaning to ensure optimum performance.

Use only a soft cloth, mild soap and water.

⚠Warning

Do not use abrasive cleaners or scouring pads as they could scratch the lens, impairing the systems performance.

Fuel

⚠Danger

EXHAUST WARNING – CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

Gases could be inhaled if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- Each time the vehicle is serviced.
- Whenever a change is noticed in the sound of the exhaust system.
- Whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to a Holden Dealer if you think the vehicle needs inspecting for any of the above reasons.

Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Turn the fan on using any setting that brings outside air into the vehicle. Do not run the engine in an enclosed area (such as the garage) any longer than is needed to move the vehicle.

⚠Danger

PETROL

Petrol is extremely flammable and highly explosive.

Always switch off the engine and any mobile phones when refuelling.

Do not smoke or allow open flames or sparks near the vehicle when refuelling.

If fuel fumes are smelt while driving, the cause should be identified and corrected without delay by a Holden Dealer.

Static electricity can ignite fuel vapour. Only use pumps, hoses and containers that are properly grounded when filling up with fuel.

To avoid injury to you and to others, read and follow all instructions on the petrol station pump.

⚠Warning

USE OF FUEL CONTAINING ETHANOL (PETROL ENGINES)

When purchasing such fuel, we recommend that the vehicle be operated on fuel containing no more than 85% ethanol.

Under no circumstances should fuel containing more than this percentage of ethanol be used. Use of such fuels may result in engine malfunction, starting and operating difficulties and materials degradation. These adverse effects could result in permanent damage to the vehicle and personal injury.

It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of fuel containing more than this percentage of ethanol may also affect your New Vehicle Voluntary Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

The vehicle may be refuelled with E10, E85 and unleaded fuel containing no ethanol. It is acceptable to mix these fuels in any combination.

The starting characteristics of E85 fuel make it unsuitable for use when ambient temperatures fall below –18 ºC. In the range of –18 ºC to 0 ºC, you may experience an increase in the time it takes for the engine to start.

The use of any fuel, other than the fuel specified, may seriously damage the vehicle and may void the warranty. See Fuel types on page 176. Only clean fuel of good quality should be used.

Caution

USE OF FUEL CONTAINING ETHANOL (DIESEL ENGINES)

Under no circumstances should you use diesel fuel containing ethanol.

Use of such fuels may result in engine malfunction, starting and operating difficulties and materials degradation.

These adverse effects could result in permanent damage to your vehicle and personal injury.

Fuel types

Petrol engines

Use unleaded petrol of 91 Research Octane Number (RON) rating or higher.

High octane unleaded petrol (premium etc.) may be used, but is not required for the vehicle.

The use of fuel with a lower octane rating than recommended may cause engine knock.

Continued use of fuel with a lower octane rating to that recommended, can cause engine damage and void the warranty.

If you detect a heavy engine knock even when using fuel of the recommended octane rating, have the engine checked.

Diesel engines

Diesel engines must be operated only on commercially available diesel fuel meeting the requirements of Euro standards EN590.

The use of bio-diesel containing up to 5 % fatty acid methyl ester (“FAME”) also known as “B5” is also permitted provided that the FAME meets the Euro Standards EN14214 and EN590.

Do not use marine diesel oils or heating oils.

The flow and filterability of diesel fuel are temperature dependent. When temperatures are low, use diesel fuel with guaranteed winter properties.

Caution

Use only bio-diesel blends containing up to a maximum of 5 % FAME that meets Euro Standards EN14214 and EN590.

Purchasing fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 5 % FAME or fuel which contains abnormal fuel properties.

Use of any other bio-diesel that does not have the certification referred to above, or has a FAME content exceeding 5 %, may cause serious damage to your vehicle (including engine failure).

Damage attributable to the use of non certified bio-diesel is not covered by your New Vehicle Voluntary Warranty. In no event will Holden be responsible or bear any liability for any damage or loss that may arise in connection with the use of any fuel that does not meet this specification.

Refuelling

Fill the fuel tank at the intermediate or fast fill rate.

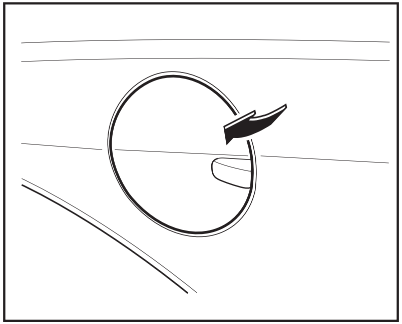
Do not add any more fuel after the fuel filler first clicks off as fuel blows back. This allows room for the fuel to expand inside the tank.

Spilt fuel on the vehicle’s exterior surfaces can damage the paint. Wash it off as soon as possible.

Tank capacity

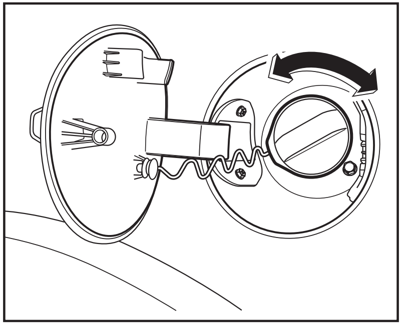
See Capacities on page 241.

Fuel filler door



1. Stop the engine.
2. Press ≋ on the key twice.
3. Open the fuel filler door by hand.

Fuel cap



1. Remove the cap slowly rotating anticlockwise.

Caution

If the cap is opened rapidly while pressure in the tank is high, fuel may spray out from the tank. Rotate it slightly to release the pressure from inside the tank.

Note
Store the fuel cap on the inside of the fuel filler door while refuelling.

2. After refuelling, rotate the fuel cap clockwise until a clicking sound is heard.
3. Push the fuel filler door closed making sure that it latches.

Petrol filler nozzle restrictor

A petrol nozzle restrictor is fitted to ensure that only unleaded petrol is used.

Caution

The use of fuel, other than the fuel specified, may cause serious damage to your vehicle and may void your warranty. Only clean fuel of good quality should be used.

Towing

Trailer towing

The word trailer is used throughout this section and includes all types of towed vehicles, such as caravans, boat trailers or any other special purpose trailer.

Maximum towing capacities (kg) – braked trailer

Engine	3.0L Petrol	2.4L Petrol	2.2L Diesel
	2,000	1,500	1,700

Note The maximum unbraked towing capacity for all vehicles is 750 kg.

Towing

Handling, durability and economy may be affected by towing a trailer.

For recommended and mandatory towing equipment, see Towing and loading equipment on page 181.

A Holden Dealer will assist with supply and installation of towing equipment.

Overloading

Never exceed the loads given for the towing equipment fitted to the vehicle.

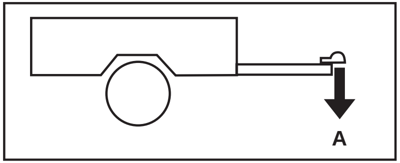
All mandatory equipment must be fitted, otherwise you may void the New Vehicle Voluntary Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle. See Towing and loading equipment on page 181.

⚠Warning

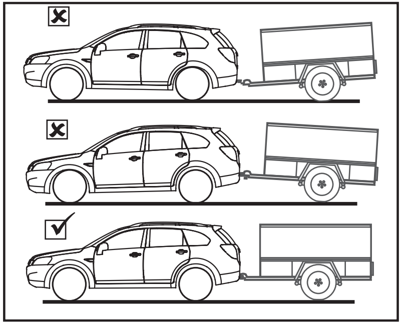
Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Voluntary Warranty, to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your Holden vehicle.

It is inadvisable to mix and match different brands of towing equipment, as equipment is usually designed as an integrated package.

Trailer recommendations



A trailer hitched to a vehicle places a weight on the tow bar. This weight is called the tow bar ball weight or tow ball load (A).



- For single axle trailers, the tow ball load should be 10% of the loaded trailer weight. For heavy trailers with more than one axle, the tow ball load should be 5 % - 10 % of the loaded trailer weight.
- If the tow ball load exceeds 158 kg refer to the mandatory equipment table on page 181.
- Adjust by moving items forwards or backwards within the trailer, to change the balance.
- Check the tow ball load before coupling the trailer to the towing vehicle.

- Axle loads must not be exceeded when the tow ball load is included. See Axle loads on page 241.
- If maximum axle loads are exceeded, weight should be removed from the rear of the vehicle and transferred onto the trailer.
- If the load balance cannot be corrected, use a load distribution hitch.

Towing and loading equipment

Tow load	Tow ball load	Mandatory equipment
Up to 750 kg	Less than or equal to 158 kg	Holden 2,000 kg rated tow bar
		Holden trailer wiring harness
Up to 750 kg	More than 158 kg	Holden 2,000 kg rated tow bar
		Holden trailer wiring harness
		Load distribution hitch
Between 750 kg and 2,000 kg	Less than or equal to 158 kg	Holden 2,000 kg rated tow bar
		Holden trailer wiring harness
		Brakes on the trailer
Between 750 kg and 2,000 kg	More than 158 kg	Load distribution hitch
		Holden 2,000 kg rated tow bar
		Holden trailer wiring harness
		Brakes on the trailer

- A load distribution hitch transfers load to the vehicles front wheels aiding steering and brake performance.
- Do not exceed the maximum towing capacities specified. See Maximum towing capacities on page 179.
- Do not exceed the total front or rear axle loads specified. See Axle loads on page 241.

Towing precautions

- When heavily loading the vehicle or when towing, inflate tyres to the maximum recommended pressure. See Tyre placard on page 214.
- Ensure that a load distribution hitch is correctly distributing the tow ball load. See Towing and loading equipment on page 181.
- Tighten the tow ball retaining nut to 140 Nm (Newton metres) and check the torque frequently.
- Vehicles handle differently when towing. Take a couple of short distance trips with the trailer before taking a long trip.
- Have the vehicle and trailer correctly maintained and serviced, with particular attention given to the brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Use an extended-arm mirror on both sides of the vehicle if necessary.
- Headlamps may need re-aiming after the loaded trailer has been hitched, particularly if a load distribution hitch is not used.
- Use a lower gear and the brakes when descending steep hills.
- Do not use axle-mounted hitches.
- Ensure that the tow bar does not obscure the rear number plate. Remove the tow bar tongue when not required for towing.
- If a tow bar is removed, have any mounting holes in the underbody sealed to prevent entry of exhaust fumes, dust and water.
- The vehicle may have Park Assist (PA). It will automatically deactivate when a trailer lighting plug is connected to the vehicle. It will automatically activate again when the plug is removed.

Trailer brakes

- Trailer brakes are mandatory on trailers weighing 750 kg and over when loaded.
- Consult the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

Running-in when towing

It is recommended that a new vehicle be driven for at least 1,500 km before towing.

If towing is necessary before this, do not exceed 80 km/h. This also applies if the vehicle is fitted with a new or reconditioned engine, transmission or rear axle.

Off road loading and towing (All Wheel Drive vehicles)

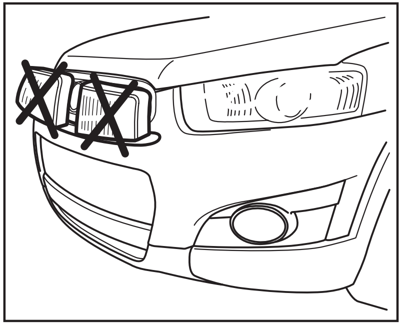
To reduce the risk of damage to the vehicle (and trailer) and to improve safety when operating off-road, reduce the vehicle speed and minimise the load being carried or towed.

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle to tow. Refer to the Service/Warranty Booklet in the vehicle's glove box.

Conversions and add-ons

Fitting accessories



Do not fit any accessory over the upper or lower air intakes at the front of the vehicle, as this may affect engine cooling.

Fitting roo/nudge bars

If a roo/nudge bar is to be fitted, it is critical that the Holden approved roo/nudge bar be used. Other types must not be fitted.

The Holden roo/nudge bar is available from a Holden Dealer and has been compatibility tested with the vehicle's design, including the Holden airbag system.

⚠Warning

Fitting other types of roo/nudge bars may affect crash performance, airbag performance and engine cooling.

Roo/nudge bars:

- Should not be fitted to vehicles operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision.
- Are only recommended for country/outback areas, where additional protection from straying animals is required.

Vehicle care

General information....................185
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Bulb replacement........................204
Electrical system.........................209
Vehicle tools 214
Wheels and tyres........................214
Jump starting 226
Appearance care 231

General information

Emission information

Petrol engine

The emission control systems are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. HC and NOx, when exposed to sunlight under certain conditions, contribute to smog. In addition, CO is toxic when it becomes highly concentrated in the air.

Emission control system

Major emission control systems that the vehicle may have are:

1. Evaporative emission control system. This system is designed to prevent the escape of fuel vapour from the fuel system and recycle the vapours through the normal combustion process.
2. Crankcase emission control system. This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. Exhaust emission control system. The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust emission control system consists of components including electronic control of spark, fuel and idle speed. In addition, vehicles have a catalytic converter and closed loop mixture control system.

Owner responsibility

The engine, engine control system and exhaust system of the vehicle must not be modified in any way.

⚠Warning

Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules. It is also illegal to drive a vehicle modified in this way.

First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

Maintenance requirements

Have the vehicle serviced at the frequency shown in the Maintenance schedule, in the Service/Warranty Booklet.

It is recommended that servicing be carried out by an authorised Holden Dealer who will maintain the vehicle's emission control system as per the Service/Warranty Booklet.

Diesel engine

Diesel particle filter (DPF)

The diesel particle filter system collects particulates from the exhaust gases to minimise discharge of soot to the atmosphere.

To prevent clogging of the filter, the soot particles are burnt off at regular intervals through a self cleaning process where additional fuel is injected into the engine cylinders to increase the particle filter temperature to approximately 600°C. This allows deposited soot to be oxidized or burnt off to carbon dioxide (CO^2).

This process usually takes between 10 and 12 minutes but may take up to 25 minutes depending on driving conditions.

Increased engine speed at idle, operation of engine cooling fan and emissions of odours and smoke are considered to be normal conditions during the self cleaning process. Fuel consumption may also be higher during this period.

Under certain driving conditions, e.g. when operated for prolonged periods at low engine loads, the system cannot clean itself automatically.

If the cleaning of the filter is required and if previous driving conditions did not enable automatic cleaning, it will be indicated by the control indicator ⁝.

See Diesel particle filter (DPF) light on page 66.

Cleaning process

To activate the cleaning process, continue driving and when road conditions and traffic permits, increase vehicle speed above 50 km/h until turns off (10 to 25 minutes).

Do not switch off the engine until the cleaning process is complete.

The control indicator extinguishes as soon as the self-cleaning operation is complete.

Turning the engine off while is on or flashing will prevent the cleaning process from completing. This will result in increased fuel consumption and a reduction in engine oil life.

If also illuminates, cleaning is not possible. Contact a Holden Dealer.

For more information refer to Holden.com.au/owners-info/faqs

Reducing fuel consumption

Engine

Have the vehicle serviced regularly in accordance with the maintenance schedule in the Service/Warranty Booklet.

Tyre pressure

Keep the tyres at the recommended pressures. See Wheels and tyres on page 214.

Wheel alignment

Maintain correct front and rear wheel alignment.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel.

Avoid long engine idling.

Accelerating, driving and braking

Accelerate gently and avoid rapid starts.

Drive the vehicle at steady speeds where possible (after running-in).

It is desirable to reach top gear as soon as possible, but do not force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake.

Air conditioning

Switch off the air conditioning when not required, however, once every 2 weeks, with the engine running, switch the air conditioning on for 5 to 10 minutes to lubricate the seals (even in winter).

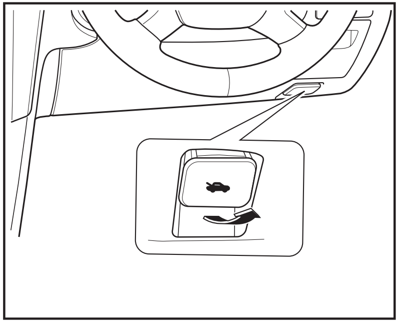
Loading

Unnecessary weight increases fuel consumption, especially when accelerating.

Vehicle checks

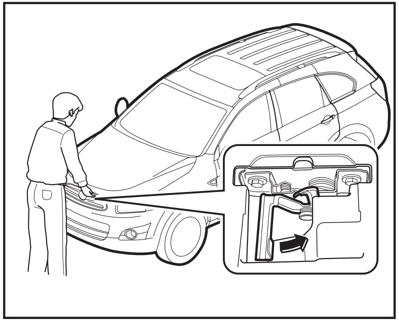
Bonnet

Opening



- Pull the lever towards you.

  A safety catch prevents the bonnet from opening completely.



1. Reach under the bonnet.
2. Push the catch towards the passenger side.
3. Hold and raise the bonnet.

   Gas struts automatically take over to lift and hold the bonnet open.

Closing

⚠Warning

To avoid injury and/or damage to the vehicle, check each time, before the bonnet is closed, that the contact area is unobstructed.

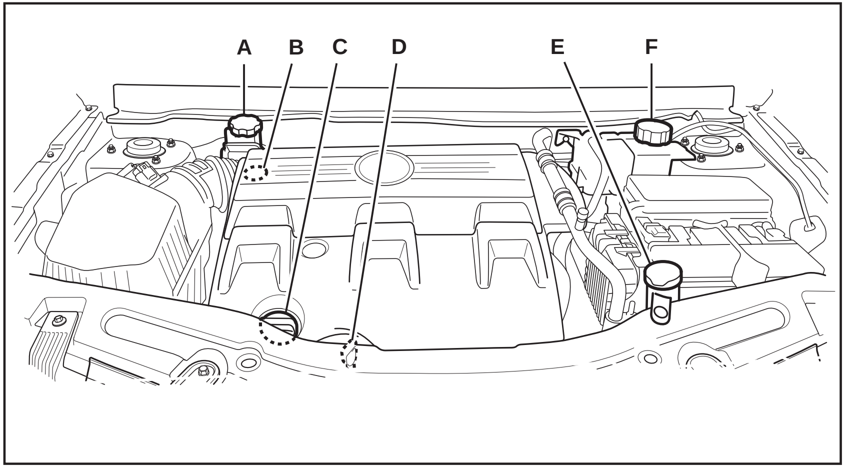
Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

⚠Warning

If while driving you notice that the bonnet has not been properly closed, pull the vehicle over to the side of the road at the earliest possible moment and close the bonnet correctly.

Engine compartment overview

Petrol V6



A. Brake fluid reservoir, see page 201

B. Power steering fluid reservoir, see page 199

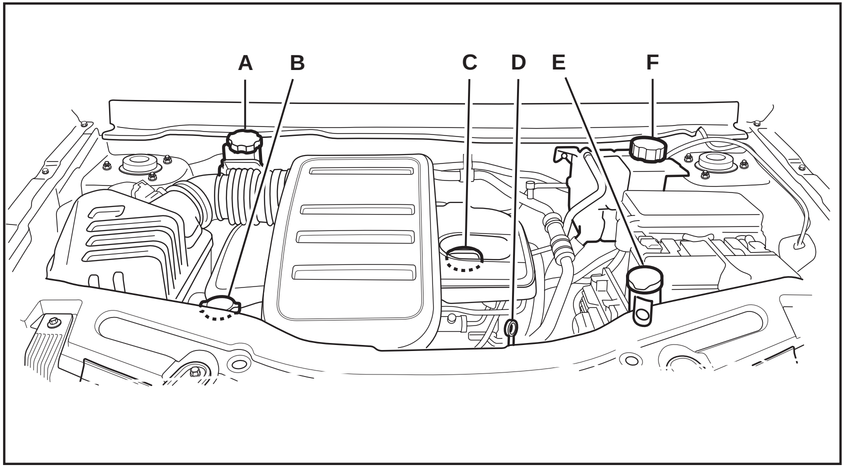
C. Engine oil filler cap, see page 192

D. Dipstick for engine oil, see page 192

E. Washer fluid reservoir, see page 201

F. Coolant reservoir, see page 194

Petrol L4



A. Brake fluid reservoir, see page 201

B. Power steering fluid reservoir, see page 199

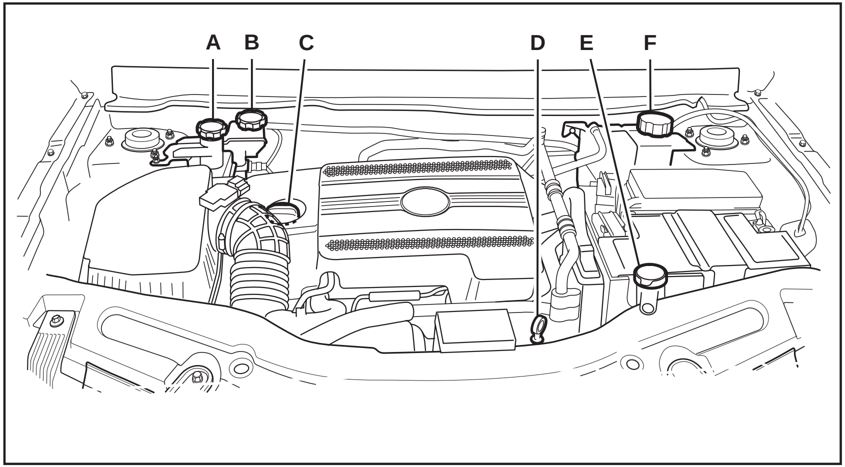
C. Engine oil filler cap, see page 192

D. Dipstick for engine oil, see page 192

E. Washer fluid reservoir, see page 201

F. Coolant reservoir, see page 194

Diesel



A. Power steering fluid reservoir, see page 199

B. Brake fluid reservoir, see page 201

C. Engine oil filler cap, see page 192

D. Dipstick for engine oil, see page 192

E. Washer fluid reservoir, see page 201

F. Coolant reservoir, see page 194

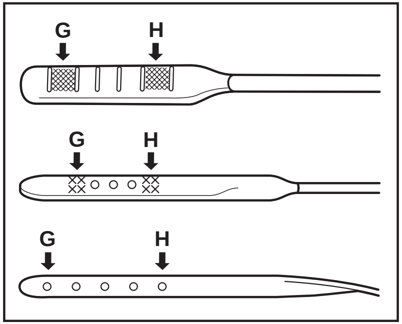
Engine oil

- Keep the engine oil at correct levels.
- Check the oil level at regular intervals, such as when refuelling.
- If 🛢 illuminates, check the oil level immediately. See Engine oil pressure light on page 66.

Checking fluid level

The engine must be at operating temperature and the ignition turned off for 10 minutes, to allow the oil to settle.

1. Park the vehicle on a level surface.
2. Remove the dipstick by pulling up on the yellow handle and wipe clean.
3. Insert the dipstick firmly.



Different dipsticks are used depending on engine variant.

G. Add mark

H. Upper mark

4. Wait for a few seconds then remove and read the oil level.

   The level should be between the area/marks (G) and (H).

   Add oil if the level is at area/mark (G).
5. Insert the dipstick firmly.

Adding engine oil

See Capacities on page 241.

1. Remove the engine oil cap (C).
2. Add enough oil to reach within the area/mark (H).
3. Wait a few minutes.
4. Check the oil level again.
5. Replace the engine oil cap and dipstick.

Note

Use only engine oil that is approved to the dexos™ specification or an equivalent engine oil of the appropriate viscosity and grade. Engine oils approved to the dexos™ specification will show dexos on the container.

Failure to use the recommended engine oil or equivalent may result in engine damage not covered by the New Vehicle Voluntary Warranty.

See Recommended fluids, lubricants and parts on page 237.

Use of oils that do not meet the dexos™ specification may result in reduced performance under certain circumstances.

Engine oil system

The engine is dependent on oil for lubricating critical areas subjected to high friction loads:

- The cylinder walls
- The pistons and rings
- The valve stems

Some oil from these areas is carried into the combustion chamber and burnt during the combustion process.

Other factors that contribute to the rate of oil consumption in the engine:

- Worn pistons, rings, valve stems and guides
- The way in which the vehicle is operated
- The quality and grade of oil
- The oil level and dilution

Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

Quality and grade of oil

If an oil is too ‘thin’ (low viscosity), the oil consumption will increase. Use only the recommended grades of oil. See Recommended fluids, lubricants and parts on page 237.

Oil level

Maintain the required oil level.

Over filling causes:

- Oil to splash onto the cylinder walls
- Excess oil to be drawn into the combustion chamber and burnt
- Oil in the sump to become aerated causing damage to the engine

Dilution

When a vehicle is frequently driven on short trips, the engine often fails to reach normal operating temperatures:

- The oil becomes diluted by fuel and moisture that settles in the oil pan.
- This may raise the oil level creating a false reading on the engine oil dipstick.

For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the area/mark (H), due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, resulting in a sudden drop in oil level.

If you are still concerned that the engine has excessive oil consumption, contact a Holden Dealer.

Note
Engine oil consumption should not be judged before 10,000 km.

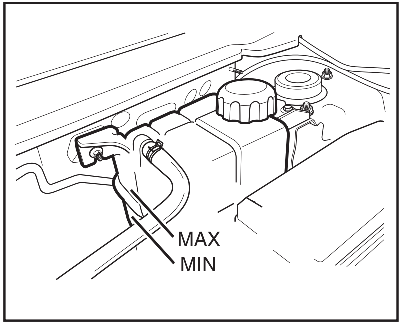
Automatic transmission fluid level

The fluid level will be checked when the vehicle is serviced. Refer to the Service/Warranty Booklet. It does not require checking in between the scheduled services.

Engine coolant

Checking fluid level

Check at least once a week by looking at the level from outside the container.



Refill the coolant reservoir:

- If the level is lower than the **MIN** line
- When the engine is cool
- To the **MAX** line

Check the cooling system for leaks first.

⚠Warning

Do not over fill the coolant reservoir.

Only use specified coolant, see Recommended fluids, lubricants and parts on page 237. Do not mix different coolants as this may damage the engine cooling system.

Remove the coolant reservoir filler cap only.

Always check the coolant level when the engine is cold. Steam and scalding liquids from a hot cooling system can blow out and cause serious burns.

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

Adding engine coolant

For engine coolant specifications and water-to-coolant ratio, see Recommended fluids, lubricants and parts on page 237. Always use the specified ratio.

1. Mix a solution of Holden coolant and clean fresh water.
2. Turn the ignition key to **LOCK**.
3. Wait for the engine to cool.
4. Undo the cap on top of the coolant reservoir.
5. Add the coolant solution.
6. Secure the cap.

Note
Failure to use coolant meeting Holden's specifications, or maintaining the specified concentration, may result in voiding the New Vehicle Voluntary Warranty.

In emergency situations, plain clean fresh water may be used temporarily until the correct Holden coolant is obtained. Replace as soon as possible from the nearest Holden Dealer.

How the engine coolant works

- The coolant contains special corrosion inhibitors.
- Coolant helps the cooling system in hot weather by increasing the boiling point.
- Coolant protects against freezing down to –30°C, provided the specified concentration is maintained.

If the coolant requires regular topping up, contact a Holden Dealer.

⚠Warning

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed, seek medical attention.

If the engine overheats or loses coolant, see Engine overheating on page 196.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including:

- Climbing a long hill
- Stopping immediately after high speed driving
- Idling for long periods in traffic
- Towing a heavily laden trailer

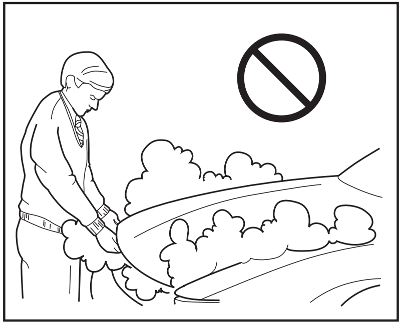
Switch the air conditioning off in these conditions.

Engine overheating

⚠Warning

Immediate action is required if the engine overheats. This may be indicated by the temperature gauge needle moving to the red zone, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

Continued driving even for a short time could result in a fire or vehicle damage.



⚠Danger

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Cooling system checks

When no steam is visible:

If the engine temperature gauge needle moves to **H** and remains there for more than 30 seconds:

1. As soon as it is safe to do so, stop the vehicle on the side of the road.
2. Switch off the air conditioning.
3. Leave the engine idling for about 3 minutes.
4. Exit the vehicle and audibly check that the cooling fan is working.

If the fan is working and 🌡 needle has not returned to its normal position within a few minutes:

1. Turn the ignition key to **LOCK** and remove the key.
2. Open the bonnet.
3. Check the coolant level.

Without undoing the coolant reservoir filler cap, look at the level from outside the container.

If the coolant level is low, there may be a leak in the cooling system:

1. Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

   Take care when checking these areas as they may still be hot.
2. Check the fan belt.
3. If a major leak or other problems are found, do not run the engine until all problems have been repaired.
4. If you do not find any problems, refill the coolant reservoir. See Adding engine coolant (overheated engine) on page 198.

⚠Danger

Do not remove the coolant reservoir cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

Caution

If you see or hear steam coming from the engine, stop and turn the ignition key to **LOCK**. Do not open the bonnet until the engine has cooled down.

If the fan is not operating and steam is visible:

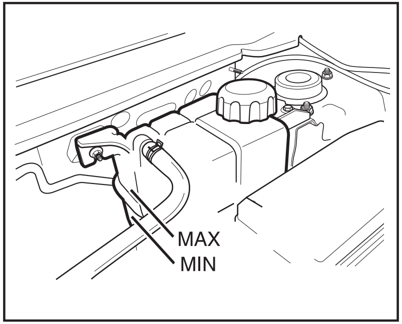
1. Turn the ignition key to **LOCK**.
2. Move away from the vehicle without opening the bonnet.
3. Let the engine cool down.
4. When steam is no longer visible, carefully open the bonnet.
5. Have the vehicle serviced as soon as possible.

Adding engine coolant

Overheated engine

⚠Warning

The cooling system is pressurised, so to avoid injury please read all of the following instructions before attempting to add coolant.



Without undoing the coolant reservoir filler cap, look at the level from outside the container.

When the engine is hot:

- The level should be above the **MIN** mark.
- If the level is at or below the **MIN** mark, add coolant:
  1. Allow the engine to cool slightly.
  2. Cover the cap with a thick cloth.
  3. Remove the cap very slowly to allow any pressure to escape.
  4. If water is added it needs to be clean.
  5. Top up the coolant reservoir to the **MAX** mark while the engine is idling.
  6. Replace the coolant reservoir filler cap.

Caution

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

- If the engine temperature gauge needle returns to normal, resume driving at a reduced speed.
- Return to normal driving after 10 minutes.
- If the engine overheats again, contact a Holden Dealer as soon as possible.

Power steering fluid

Caution

Do not drive the vehicle without the proper amount of power steering fluid. It can result in system damage and costly repair.

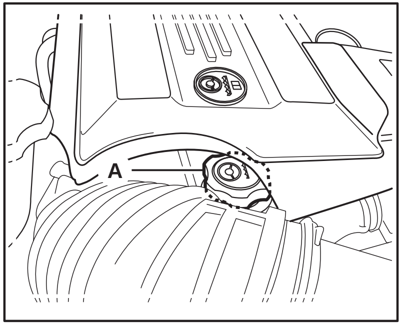
Caution

Extremely small amounts of contamination can cause steering system damage and cause it to not work properly.

Do not allow contaminants to contact the fluid side of the reservoir cap/dipstick or to enter the reservoir.

Checking fluid level

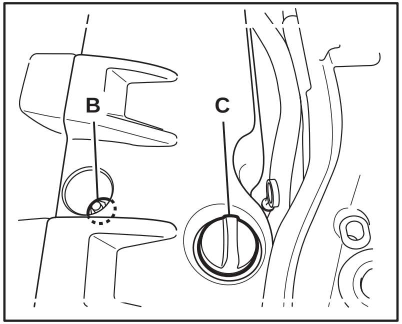
3.0 L V6 petrol engine



The power steering fluid reservoir is located below the engine cover (A).

Engine cover removal:

1. Turn the ignition key to **LOCK**.

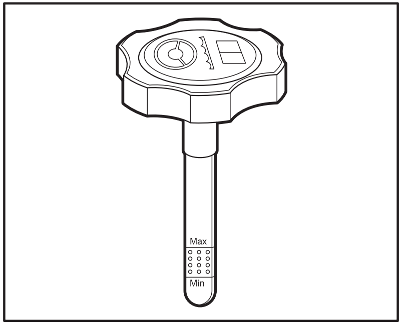


2. Remove the bolt (B).
3. Remove the engine oil cap (C).
4. Lift the engine cover to remove.

   If assistance is required, contact a Holden Dealer.

To check the fluid level:

1. Wipe the cap and the top of the reservoir clean.
2. Remove the cap.



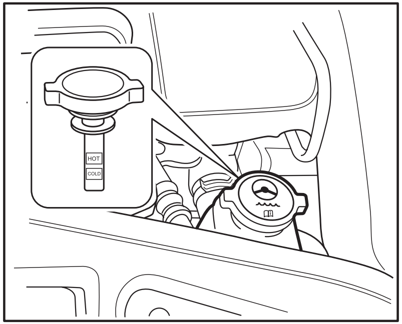
When the engine is hot, the fluid level should be at the **MAX** mark.

When the engine is cold, the fluid level must be between the **MIN** and **MAX** marks.

2.4 L L4 petrol engine

To check the fluid level:

1. Wipe the cap and the top of the reservoir clean.
2. Remove the cap.



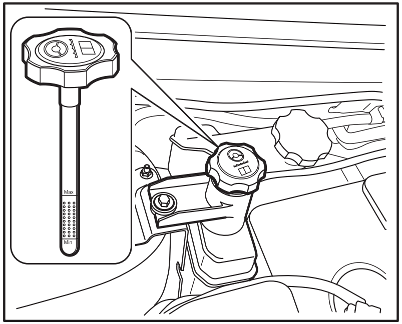
When the engine is hot, the fluid level should be within the **HOT** area.

When the engine is cold, the fluid level should be within the **COLD** area.

2.2 L L4 diesel engine

To check the fluid level:

1. Wipe the cap and the top of the reservoir clean.
2. Remove the cap.



When the engine is hot, the fluid level should be at the **MAX** mark.

When the engine is cold, the fluid level must be between the **MIN** and **MAX** marks.

Adding power steering fluid

For power steering fluid specifications, see Recommended fluids, lubricants and parts on page 237.

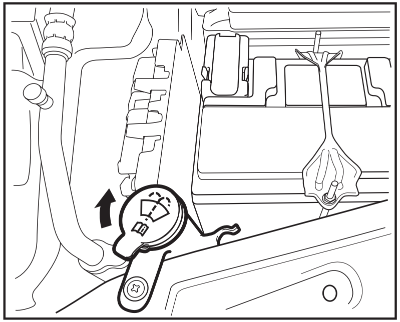
1. Add enough fluid to bring the level up to the correct levels.

   Do not overfill.
2. Replace the cap tightly.
3. Clean up any spilt fluid.

Note
If the power steering fluid reservoir requires constant topping up, contact a Holden Dealer immediately.

Washer fluid

Checking fluid level



Check the fluid level weekly and top up if necessary.

Adding washer fluid

1. Use the correct amount of washer fluid additive. Refer to a Holden Dealer.

   Do not use ordinary soap or detergent as they froth up and damage the wiper rubbers.
2. Secure the cap.

Brake fluid

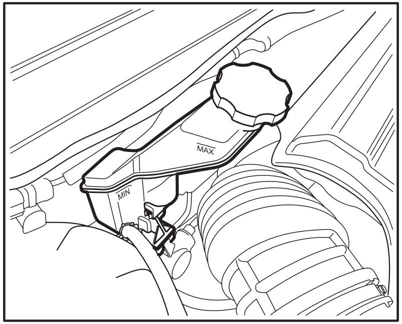
⚠Warning

Do not let brake fluid contact your skin or eyes. If you do get it in your eyes or on your skin, wash the affected skin thoroughly with soap and water, or flush eyes immediately with water and seek medical attention.

Do not spill brake fluid on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

Checking fluid level

Check once a week by looking at the level from outside the container. For location, see Engine compartment overview on page 189.



The level should be between the **MIN** and **MAX** area.

If the fluid level is correct, do not remove the reservoir cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

Adding brake fluid

Use heavy duty brake fluid. See Recommended fluids, lubricants and parts on page 237.

1. Turn the ignition key to **LOCK**.
2. Wipe the sides of the cap clean.
3. Rotate anticlockwise to remove.
4. Top up with heavy duty brake fluid.

⚠Warning

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

5. Secure the cap and clean up any spilt fluid.

If the brake fluid requires regular topping up, contact a Holden Dealer immediately.

Battery

⚠Warning

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. Therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with plenty of water and seek medical assistance immediately. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.

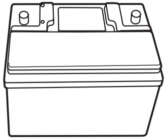
Remove rings, metal watch bands and other metal jewellery before working around the battery. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user.

Never disconnect the battery when the engine is running.

Always connect the red cable to the positive (+) battery terminal and the black cable to the negative (-) battery terminal. Connecting the battery cables to the wrong terminals can result in injury and damage to the vehicle.

Wear eye protection such as safety glasses and avoid leaning over the battery.

Battery maintenance



The battery is maintenance free.

The fluid level does not need to be checked.

To extend the life of the battery:

- Keep the battery mounted securely.
- Keep the top of the battery dry and clean.
- Keep the terminals and connections clean, tight and coated with petroleum jelly or terminal grease.
- Immediately rinse off any spilled electrolyte using a solution of water and baking soda.
- If the vehicle is not going to be driven for an extended period of time, disconnect the cable from the negative (-) terminal of the battery to prevent discharge, and charge the battery every 6 weeks.

Diesel fuel filter

The vehicle may have a diesel fuel filter.

When the water level in fuel filter is excessive, illuminates on the instrument panel.

Caution

The engine and fuel system may be seriously damaged if the vehicle is driven while is illuminated.

Contact a Holden Dealer immediately to have the fuel filter drained.

Note

The fuel filter will be drained when the vehicle is serviced. Refer to the Service/Warranty Booklet.

Diesel fuel system bleeding

The system requires bleeding if the vehicle has run out of fuel.

Note

- A minimum of 10 L of diesel fuel must be in the tank for the bleeding operation to work correctly.
- It is possible to restart the engine if the tank has been run dry. A delayed start can be expected.

1. Turn the ignition key to **ON** for approximately 5 seconds.
2. Turn the ignition key to **LOCK**.
3. Repeat steps 1 and 2 five times.
4. Turn the ignition key to **START** for approximately 40 seconds.
5. If the engine does not start, wait at least 5 minutes and try again.

   If the engine still does not start, contact a Holden Dealer.

Bulb replacement

Contact a trained service technician if unsure about the bulb replacement process.

When replacing bulbs:

- Turn the ignition key to **LOCK** and remove the key.
- Turn off related switches.
- Fit bulbs of the specified wattage only.
- Do not touch bulbs or reflectors with bare hands.
- Clean stained bulbs with methylated spirits.
- As headlamp aiming is a safety item it is recommended that you have it carried out by a Holden Dealer.

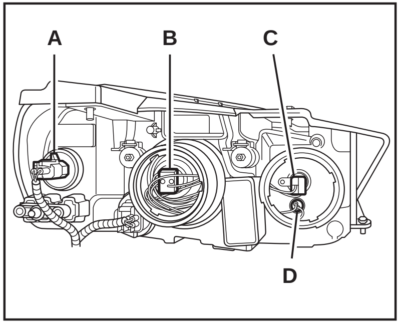
Bulbs to be changed by a Holden Dealer

- Sun visor mirror lamps
- Ignition switch lamp
- Exterior mirror lamps
- High mount stop lamp
- Front fog lamps

Caution

Condensation may temporarily appear on the inside of exterior lamp lenses after rain or washing the vehicle. Condensation occurs when there is a temperature difference between the inside and outside of the lamp allowing a fine mist on the inside surface of the lamp lens. This condensation will disappear when the vehicle is in a dry environment or the lamp is on. If water does collect in the lamp, contact a Holden Dealer.

Headlamps, front turn signal lamps and parking lamps



A. Turn signal lamp

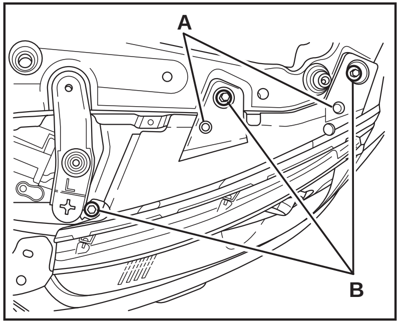
B. Low beam headlamp

C. High beam headlamp

D. Parking lamp

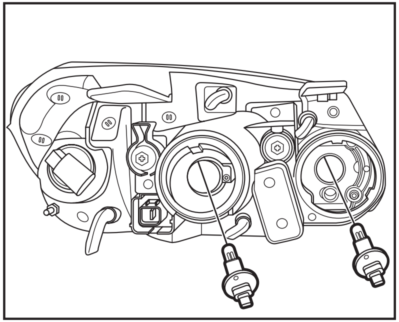
Halogen headlamps (55 W)

1. Open the bonnet.
2. Remove the nine screws and clips securing the radiator shroud.



3. Remove the two screws (A) retaining the headlamp assembly.
4. Remove the three bolts (B).
5. Pull the headlamp assembly straight forward, releasing the retaining studs from the grommets.

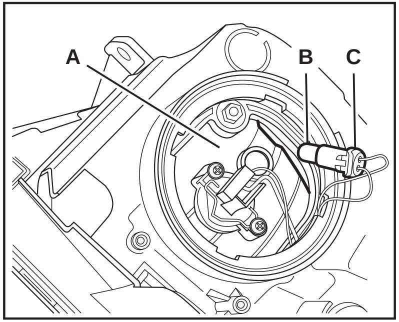
6. Remove the dust cover from the back of the headlamp housing by rotating anticlockwise a quarter of a turn.



7. Disconnect the electrical connector.
8. Remove the bulb from the headlamp assembly by releasing the spring clamp.
9. Install the new bulb into the socket.
10. Attach the spring clamp. Reconnect the electrical connector.
11. Install the dust cover in the back of the headlamp housing by rotating clockwise a quarter turn.
12. Reinstall the headlamp assembly and radiator shroud.

Parking lamps (5 W)

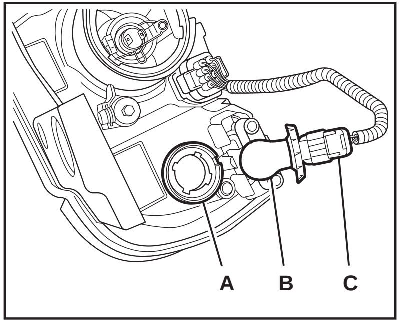
1. Open the bonnet.
2. Remove the headlamp assembly.
3. Remove the dust cover from the back of the headlamp housing by rotating anticlockwise a quarter of a turn.



4. Disconnect the electrical connector.
5. Release the spring clamp.
6. Rotate the bulb socket (C) anticlockwise to remove it from the headlamp assembly (A).
7. Pull the bulb (B) straight out of the socket (C).
8. Push the new bulb into the socket (C) and reinstall the socket into the headlamp assembly (A) by rotating it clockwise.

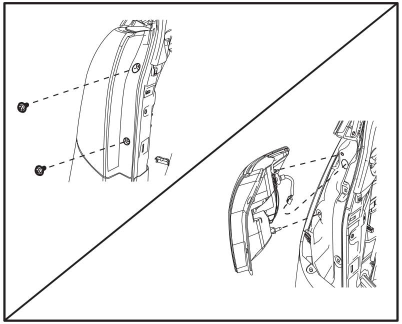
Front turn signal lamps (21 W)

1. Open the bonnet.
2. Remove the headlamp assembly.



3. Rotate the bulb socket (C) anticlockwise to remove it from the headlamp assembly (A).
4. Remove the bulb (B) from the socket (C) by rotating anticlockwise.
5. Install the new bulb into the socket (C) and reinstall the socket into the headlamp assembly (A) by rotating it clockwise.

Rear tail lamps



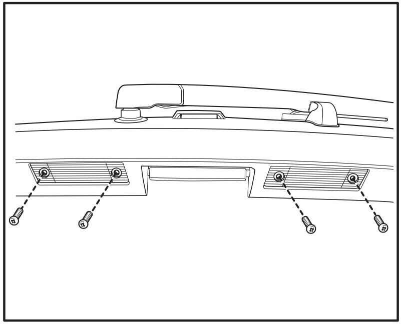
1. Open the tailgate.
2. Remove the two screws and the lamp assembly.
3. Remove the bulb holder by rotating it anticlockwise.
4. Push the bulb inward and rotate it anticlockwise.
5. Insert the replacement bulb into the holder and rotate it clockwise.
6. Replace the bulb holder into the lamp housing and rotate it clockwise to secure.
7. Refit the lamp assembly into the vehicle securing with the two screws.

Rear tail lamp wattages:

- Reverse (16 W)
- Stop/tail (21/5 W)
- Rear fog (21 W)
- Rear turn signal (21 W)

License plate lamps

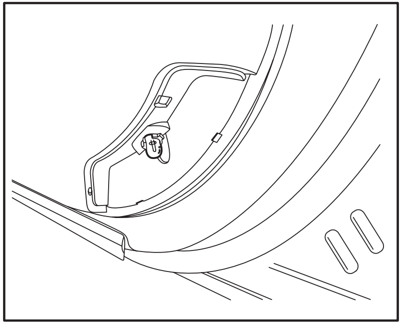
(5 W)



1. Remove the two screws and the lamp lens.
2. Rotate the bulb holder anticlockwise and remove it from the housing.
3. Pull the bulb straight out of the bulb holder and install the replacement bulb.
4. Rotate the bulb holder clockwise to reinstall it into the lamp housing.
5. Refit the lamp lens, securing with the two screws.

Front door step lamp

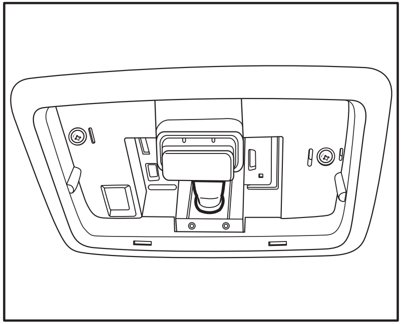
(5 W)



1. Using a flat-blade screwdriver, carefully pry the lamp lens away from the front door trim.
2. Pull the bulb straight out of the bulb holder and install the replacement bulb.
3. Refit the lamp lens ensuring it is securely fastened.

Interior and map lamps

(10 W)



1. Using a flat-blade screwdriver, carefully pry the lamp lens away from the housing.
2. Remove the bulb and install the replacement.
3. Refit the lamp lens.

Electrical system

Fuses and relays

Fuse block

Fuse blocks are located:

- In the engine compartment
- In the floor console on the driver side

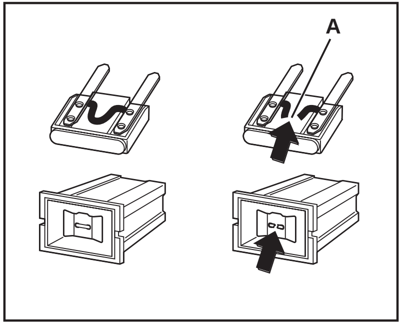
Spare fuses and a fuse extractor are located in the engine compartment fuse block.

Relays

Relays are located in the engine compartment fuse block.

Their position and function is shown on the inside of the fuse cover.

A blown fuse

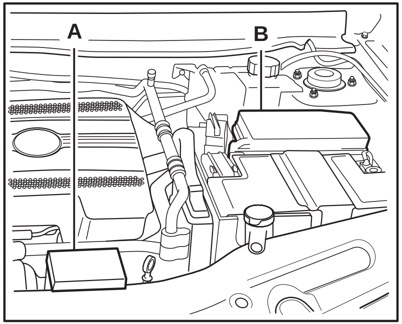


1. Pull out the suspect fuse.
2. Examine the wire in the fuse.

   A blown fuse can be recognised by its melted wire (A).

   If a fuse blows twice in a row, contact a Holden Dealer.

Engine compartment



- Diesel auxiliary fuse block (A)
- Engine compartment fuse block (B)

The engine compartment may have a diesel auxiliary fuse block.

The fuse blocks contain circuit fuses, main fuses and relays.

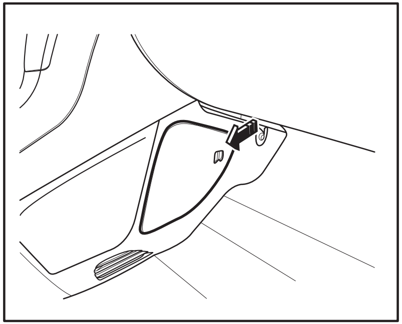
To remove the cover:

1. Press the catch on the side of the fuse block towards the engine.
2. Release the two tabs at the opposite side.

3. Ensure the cover is correctly fitted after replacing or inspecting fuses.

   Fuse amperages (amps) are shown on the inside of the fuse cover.

Floor console

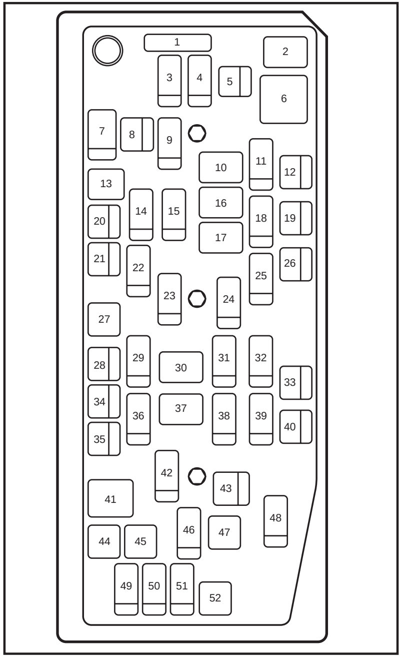


To access the fuse cover:

1. Open the driver side door.
2. Pull the latch rearwards to disengage the cover.

   The fuse amperages and positions are shown on the inside of the fuse cover.
3. Replace the cover after use.

Engine compartment fuses and relays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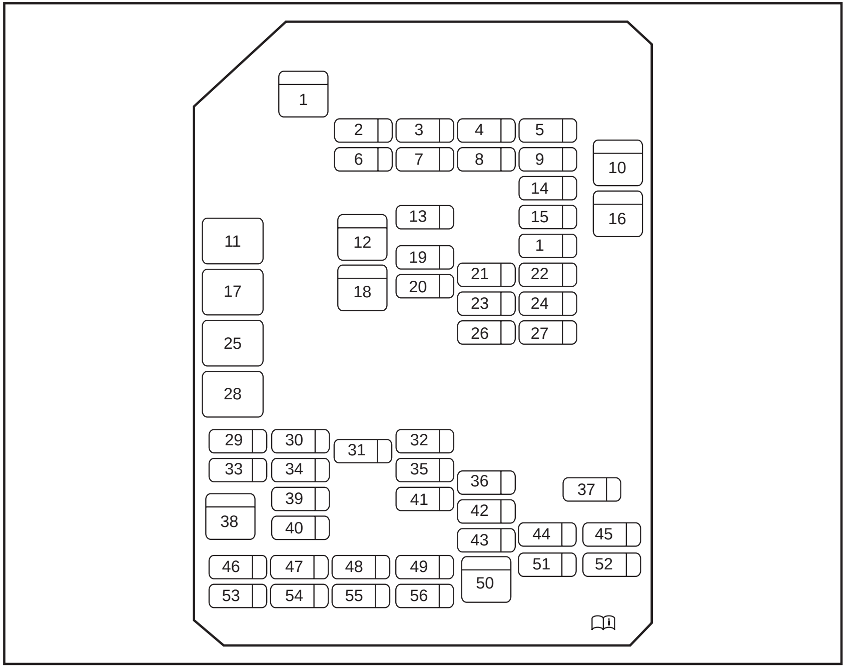
1	PWM FAN	80A
2	FAN1 RELAY	
3	IGNITION COIL A	15A
4	IGNITION COIL B	15A
5	FAN1	40A
6	FAN2 RELAY	
7	ECM	15A
8	FAN3	40A
9	ECM PWR TRN	30A
10	PWR/TRN RELAY	
11	ENG SNSR	15A
12	STRTR	20A
13	FAN3 RELAY	
14	TCM	15A
15	SPARE	
16	STRTR RELAY	
17	FUEL/VAC PUMP RELAY	
18	ABS	20A
19	BATT3	60A
20	SPARE	
21	EPB	40A
22	STOP LAMP	20A
23	FRT WPR	25A
24	A/C	10A
25	BCM	10A
26	FUEL/VAC	20A
27	STOP LAMP RELAY	
28	BATT2	60A
29	LO BEAM RH	10A
30	WPR CNTRL RELAY	
31	PARK LP RH	10A
32	PARK LP LH	10A
33	SPARE	
34	ABS	50A
35	BATT1	60A
36	LO BEAM LH	10A
37	WPR SPD RELAY	
38	HDLP WASHER	20A
39	TRLR PRK LAMP	10A
40	REAR WIPER	20A
41	REAR DEFOG RELAY	
42	HTD WASH/MIR	15A
43	REAR DEFOG	30A
44	LO BEAM RELAY	
45	HIGH BEAM RELAY	
46	FRT FOG	15A
47	HDLP WSHR RELAY	
48	PRK LP RH	
49	HORN	15A
50	HI BEAM LH	10A
51	HI BEAM RH	10A
52	FRT FOG RELAY	

Floor console fuses and relays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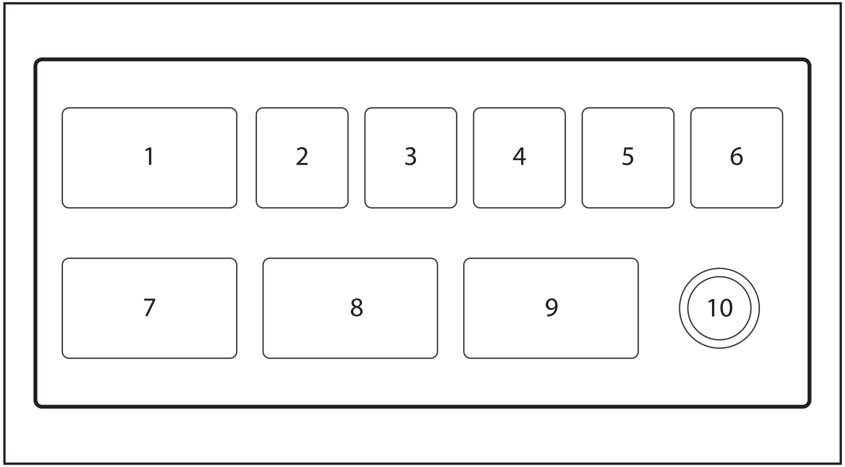
1	DRVR PWR SEAT	30A
2	S/ROOF FOLDING MIRROR	10A
3	FSCM/MENT SOL	20A
4	F/DOOR LOCK	15A
5	DR/LCK	20A
6	TRLR	20A
7	APO JACK (CONSOLE)	20A
8	MTO SEAT PWR	20A
9	BCM (PRK/TRN)	15A
10	PASS PWR WNDW	30A
11	ACC/RAP RELAY	
12	S/ROOF BATT	20A
13	CIGAR	20A
14	BCM (STOP)	15A
15	BCM (CTSY)	15A
16	DRV PWR WNDW	20A
17	CIGAR/APO JACK RELAY	
18	SPARE	
19	APO JACK REAR CARGO	20A
20	RUN/CRNK	15A
21	SPARE	
22	AMP	30A
23	BCM (TRN SIG)	15A
24	DRL	15A
25	RUN RELAY	
26	FRT WSR	20A
27	L/GATE	10A
28	RUN/CRNK RELAY	
29	HEATING MAT SW	20A
30	FSCM	10A
31	AWD/VENT	15A
32	SPARE	

33	RUN2	10A
34	ISRVM/ACM	5A
35	RR FOG	15A
36	BCM (DIMMER)	15A
37	LOGISTIC MODE	10A
38	HVAC BLWR	40A
39	CLSTR	10A
40	SDM (IGN_1)	10A
41	PWR DIODE	5A
42	XBCM	10A
43	TRLR BATT	30A
44	RVS/HVAC/DLC	15A
45	PWR/MODING	2A
46	SSPS	10A
47	XBCM	10A
48	BCM (INT LIGHT) TRLR FOG	20A
49	IPC	10A
50	SPARE	
51	SDM (BATT)	10A
52	SPARE	
53	OSRVM	2A
54	AUDIO/KEY CAPTURE	10A
55	RADIO	15A
56	STR/WHL SW	2A

Diesel auxiliary fuse and relay block

The engine compartment may have a diesel auxiliary fuse block.



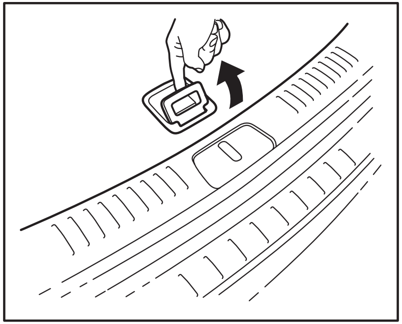
1	RELAY PTC 3	
2	PTC 3	40A
3	PTC 2	40A
4	PTC 1	40A
5	F/F HTR	30A
6	GPCU	60A
7	RELAY PTC 2	
8	RELAY PTC 1	
9	RELAY F/F HTR	
10	B+	

⚠Warning

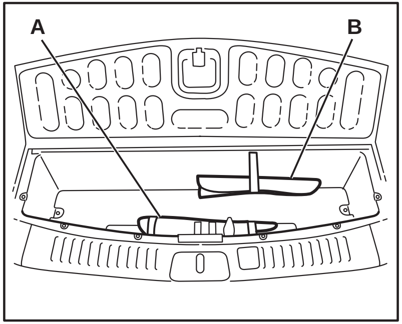
When replacing a fuse, ensure the replacement fuse is of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.

Vehicle tools

Tools



The vehicle has a tool kit, located in a compartment in the floor of the load area.

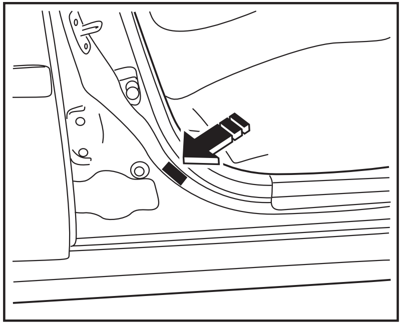


A Jack

B. Tool kit

Wheels and tyres

Tyre placard



The correct pressures for tyres are shown on the tyre placard in the driver's door opening (B pillar).

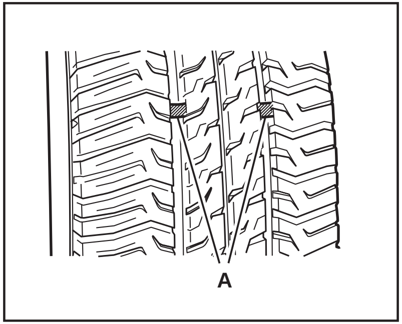
Tyre pressure

- Check the air pressure of tyres (including the spare) weekly, to ensure occupant safety, as well as reducing fuel consumption and increasing the life of the tyres. See Tyre pressure on page 242.
- Use a tyre pressure gauge to check the tyres. Simply looking at the tyres is not sufficient.
- For constant long distance or rough road driving, daily checking is recommended.
- If the vehicle is heavily loaded, the recommended pressure for the tyres is increased.
- Check pressures when the vehicle has been stationary for over 3 hours. If tyre pressures must be checked immediately after driving more than 2 km, increase tyre placard pressure by 10 %.
- Tyre pressures may need to be increased depending on the load on the vehicle. See Vehicle weight on page 240.
- If the vehicle is loaded to half the maximum payload, the tyres should be inflated half way between the minimum and maximum pressures given on the tyre placard.
- Replace any valve dust caps or extensions.
- Check the condition of the tyre tread and inspect for stones or abnormal wear.

Tyre and rim condition

- Do not drive over sharp edges to avoid tyre and rim damage and possible tyre blowout.
- Drive over edges slowly and at right angles, wherever possible.
- When parking, ensure the tyres are not pressed against the edge of the curb.
- Check the tyres regularly for damage, stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Contact a Holden Dealer if in doubt.

Tread depth



The tyres originally fitted to the vehicle have built-in tread indicators which show up when the tyres are worn.

Replace the tyres when:

- They are worn to the point where the tread indicators (A) appear.
- The cord or fabric is showing.
- The tread or sidewall is cut, split or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can not be repaired because of the size or location of the damage.

⚠Warning

The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the ESC system.

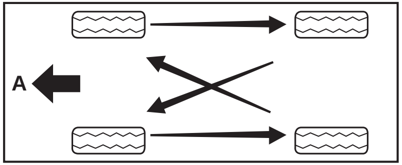
Do not attempt to drive on a flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded are not capable of being driven safely at high speeds. Therefore, their use is not recommended.

Tyre rotation

Front and rear tyres can wear differently depending on:

- Types of roads driven on
- Driving habits
- Tyre pressures
- Wheel alignment and balance

New tyres should be fitted in pairs to the front. If replacing only one tyre, pair it on the same axle with the least worn of the other three.



A. Front of vehicle

Follow the diagram for the correct rotation pattern.

If the wheels are rotated it is recommended to check the balance at the same time.

Buying new tyres

Refer to the tyre placard on the vehicle for tyre size and load rating.

Using a different size or type of tyre may affect:

- Ride
- Handling
- Speedometer accuracy
- Vehicle ground clearance
- Tyre clearance
- Snow chain clearance

Tyres with heavy treads and those made for better grip in the wet, should only be operated within the limits recommended by the manufacturer.

Replacing the factory fitted wheels and tyres with non-genuine Holden wheels and tyres may affect the New Vehicle Voluntary Warranty as well as the vehicle's insurance policy.

Contact a Holden Dealer for advice on suitable tyres.

Wheel alignment and tyre balance

Improper wheel alignment or balance can cause:

- Tyres to wear fast and unevenly
- The vehicle to pull to one side
- Vibration

If any of these problems exist, have the vehicle checked by a Holden Dealer.

Tyre changing

⚠Warning

Use the jack only for lifting the vehicle when changing wheels and lifting the spare wheel carrier.

Do not jack a vehicle with a trailer attached. Remove the trailer first.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

Do not start or run the engine while the vehicle is supported by the jack.

All passengers should be out of the vehicle when it is being jacked.

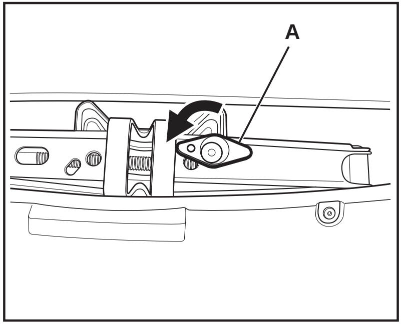
Use the jack only at the designated lifting points and spare wheel carrier. Use in other locations may result in the vehicle falling of the jack, or damage to the vehicle.

The vehicle should only be jacked on hard, level surfaces.

Removing the spare tyre

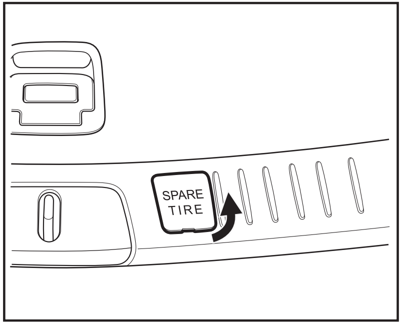
1. Park on level surface.

   Point the wheels straight ahead
2. Apply the park brake.
3. Remove the ignition key.
4. Place the shift lever in **P**.
5. Open the tailgate.
6. To access the jack and tools lift up the compartment handle and fold the lid upward. See Vehicle tools on page 214.

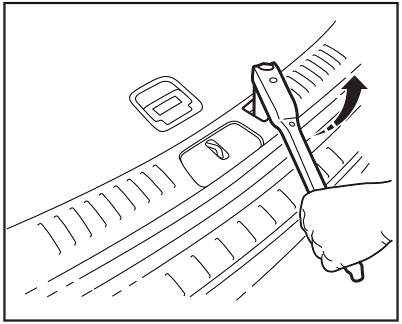


7. Remove the wing bolt (A) from the jack by rotating it anticlockwise.
8. Remove the straps holding the tool bag.

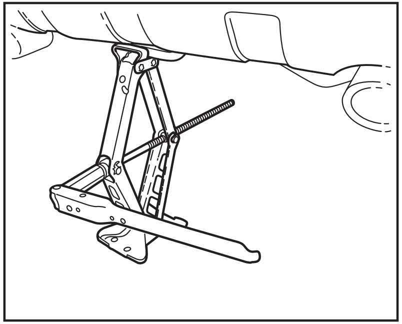
Spare wheel access



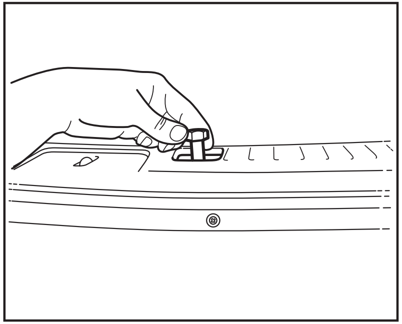
9. Use a flat-blade screwdriver to pry off the spare wheel carrier mounting bolt cover marked **SPARE TIRE** on the rear trim of the tailgate opening.



10. Use a wheel wrench to loosen the spare wheel carrier mounting bolt (anticlockwise) securing the spare wheel carrier.



11. Place the jack under the spare wheel carrier and wind the jack up until it engages with the spare wheel carrier.

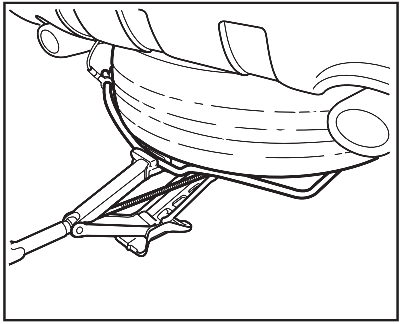


12. Loosen the spare wheel carrier mounting bolt completely.

Note

The spare wheel carrier mounting hook may fall to the ground when the mounting bolt is undone.

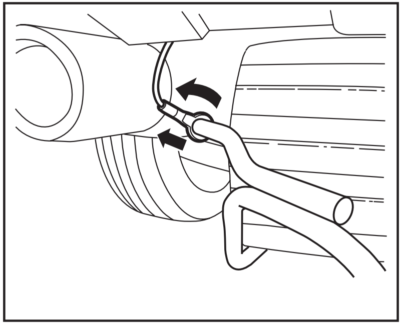
Store the mounting hook in the load area compartment.



13. Lower the jack (approximately 20 cm) to the point where the spare wheel carrier check strap can be removed from the carrier.

⚠Warning

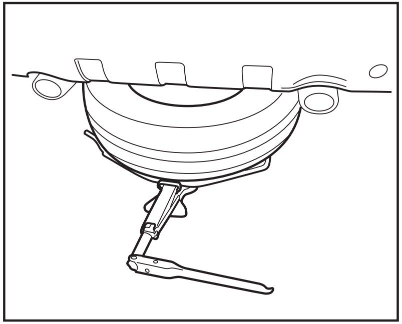
The exhaust may be extremely hot. Do not touch any part of it.



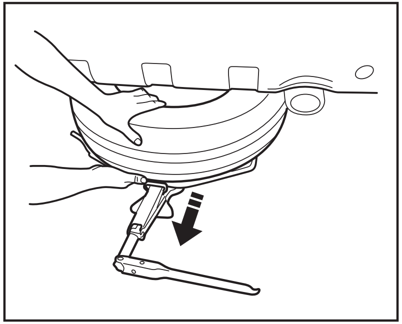
14. Remove the spare wheel carrier check strap by rotating the eye loop anticlockwise approx. 90° and sliding it off the end of the carrier shaft towards the passenger side of the vehicle.

Note

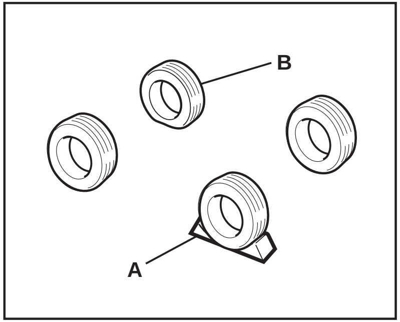
The jack may need to be adjusted up or down to allow for enough slack to remove the check strap.



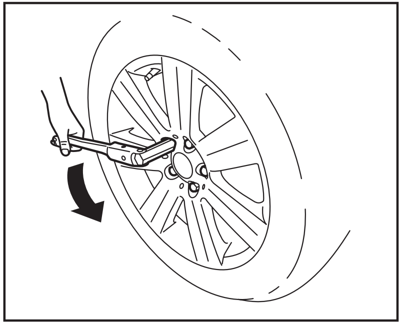
15. Lower the jack as far as it will go.



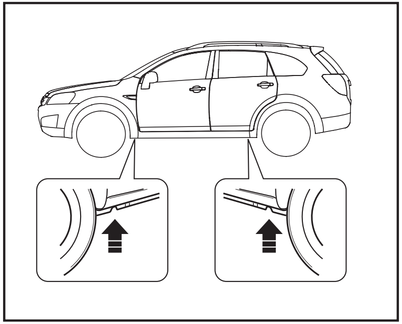
16. Remove the spare wheel from the spare wheel carrier.
17. Remove the jack and wheel wrench from the spare wheel carrier.



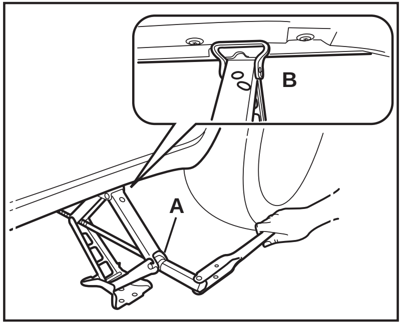
18. Chock the wheel diagonally (A) opposite the flat tyre (B) with a suitable solid object.



19. On the flat tyre, turn the wheel wrench to loosen the wheel nuts, one turn each.



20. Place the jack under the jacking point nearest the tyre to be changed.



21. Attach a wheel wrench to the jack (A).
22. Turn the jack handle clockwise to raise the jack, until the jack engages with the jacking point (B).
23. Raise the vehicle until there is room for the spare wheel to fit in place.

Note

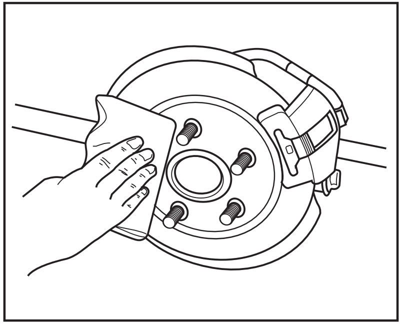
Do not raise the vehicle off the ground more than necessary to change the wheel.

⚠Warning

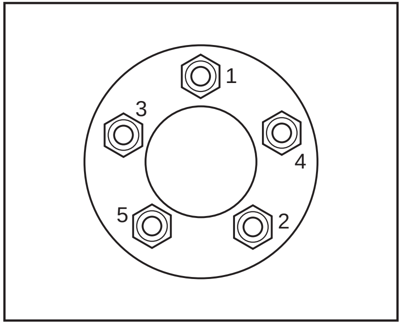
Failure to position the jack as described could cause the vehicle to slip off the jack.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

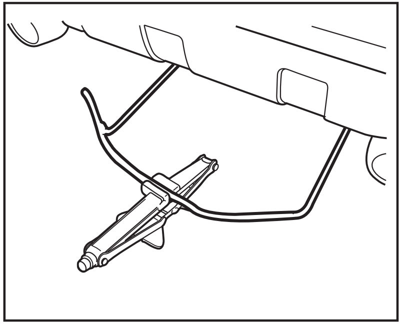
24. Remove the wheel nuts and wheel.



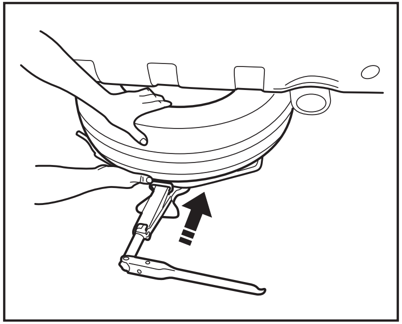
25. Remove any dirt or rust from the wheel nuts and studs, mounting surfaces and spare wheel.
26. Place the spare wheel on the wheel mounting surface.
27. Replace the wheel nuts by hand and lightly tighten with a wheel wrench.
28. Turn the jack handle anticlockwise to lower the vehicle.
29. Remove the jack and wheel wrench.



30. Tighten the nuts firmly with the wrench in the pattern shown. The required torque is 140 Nm (Newton metres).



31. Position the jack under the spare wheel carrier.



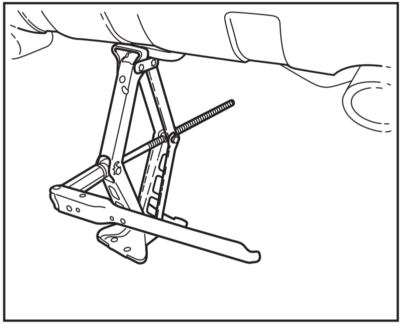
32. Place the flat tyre onto the wheel carrier with the wheel trim facing down.

    Note
    If the vehicle is fitted with 19" wheels, Holden recommends that the tyre is secured within the load compartment, to ensure it remains secure in the event of sudden braking.

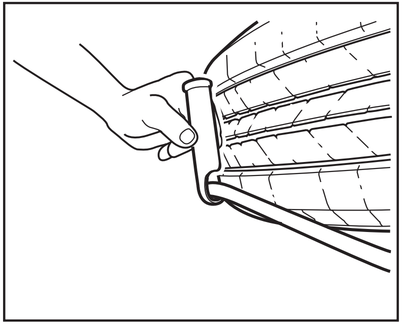
    Continue to raise the spare wheel carrier.

33. Raise the jack until the spare wheel carrier check strap can be installed.

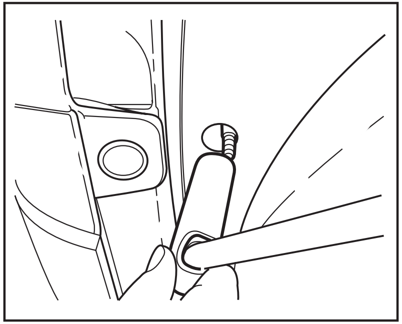
34. Replace the spare wheel carrier check strap.



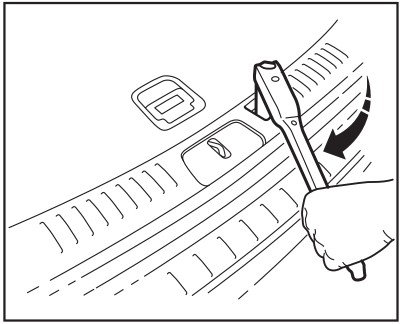
35. Continue raising the jack until the spare wheel carrier is in its original position.



36. Install the spare wheel carrier mounting hook onto the spare wheel carrier.



37. Align the spare wheel carrier mounting hook with the spare wheel carrier mounting bolt and engage the thread.



38. To secure the spare wheel carrier, tighten the mounting bolt firmly clockwise using a wheel wrench.
39. Install the spare wheel carrier mounting bolt cover and store the equipment in the load area compartment.

Note

Have the flat tyre repaired or replaced as soon as possible and fit on to the vehicle.

Place the spare wheel in the spare wheel carrier.

⚠Warning

The steel spare wheel is for temporary use only. The vehicle must not be driven at more than 80 km/h when this wheel is fitted.

As soon as possible after changing a wheel, have the wheel nuts tightened with a torque wrench to 140 Nm (Newton metres) evenly in the sequence shown (refer to Step 30) as wheel nuts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

Jump starting

Read the following warnings and procedure in full before attempting to jump start the vehicle.

If you are still unsure about jump starting, Holden strongly recommends for your safety and that of the vehicle that you seek the assistance of a suitably trained service technician.

⚠Warning

Do not push start or tow start the vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can jump start, but do not push start the vehicle.

To protect the vehicle's electrical system, never disconnect the battery when the engine is running. Never charge the battery while it is still connected to the vehicle. First disconnect the negative cable, then the positive cable. The polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged when reconnecting. First connect the positive cable, then the negative cable.

⚠Warning

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, adhere to the following when working near a battery:

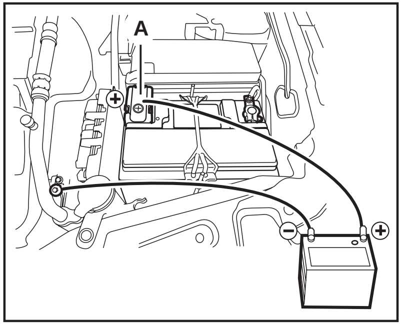
- Do not use open flames or sparks near the battery.
- Do not smoke near the battery.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with plenty of water immediately. If it gets in your eyes you should not only flush with plenty of water but should also seek medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.

- Make sure that any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Never use a quick charger to start the engine.
- If you have a telephone fitted to the vehicle, remove the fuse for the telephone before jump starting. Remember to replace the fuse afterwards.
- To prevent damage to the audio system, switch it off before jump starting the vehicle.

Jump starting procedure

Note

The battery in both vehicles must have a negative earth and a 12 volt rating.



1. Position the two vehicles so they are not touching.
2. Place the shift lever in position **P**.
3. Turn the ignition key to **LOCK**.
4. Switch off all lamps and accessories in both vehicles, except the hazard warning flasher or any lamps needed for the work area.
5. Attach one end of the red jumper lead to the positive terminal of the vehicle with the charged battery (identified by a + symbol).
6. Remove the cover (A) on the vehicle with the flat battery, by squeezing the two clips together.
7. Attach the other end of the red jumper lead to the positive terminal of the vehicle with the flat battery.
8. Attach one end of the black jumper lead to the negative terminal of the vehicle with the charged battery (identified by a – symbol).
9. Attach the other end of the black jumper lead to a solid stationary, metallic point on the engine of the vehicle with the flat battery.

Note

- Do not connect directly to the negative terminal of the battery, as this could cause sparks.
- When making all connections, ensure the jumper lead clamps do not touch each other. Also, ensure the jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.

10. Start the engine in the vehicle with the charged battery and run the engine at a moderate speed.
11. Then start the engine in the vehicle with the flat battery.

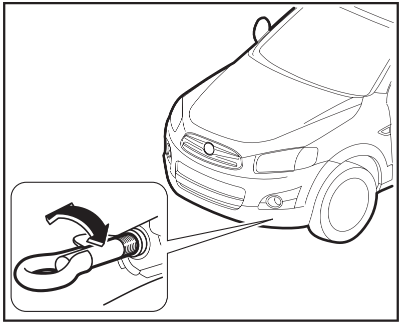
    Attempts to start the engine with the flat battery should be made at one minute intervals and should not last longer than 15 seconds.
12. Allow both engines to idle for approximately 3 minutes with the leads still connected.
13. Leave the engine running while removing the jumper leads in the exact reverse order they were installed.

    While removing each clamp, ensure they do not touch any other metal while the other end remains attached.

Towing a disabled vehicle

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. State and local laws must be followed.

Towing the vehicle



In an emergency, the vehicle may be towed on all four wheels for short distances only, using the front towing eye.

Emergency towing procedure

Tow only on hard-surfaced roads for a short distance and at low speeds:

1. Fit the towing equipment to the front towing eye.

   Do not attach towing equipment to the bumpers or brackets, suspension or cross members.
2. Turn the ignition key to **ON** to enable the steering lock, windscreen wipers and turn signals operation.
3. Place the shift lever in **N**.
4. Release the park brake.

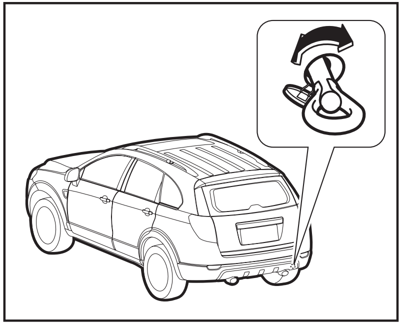
   Note
   If the vehicle's battery is flat and the vehicle requires towing, see Automatic transmission shiftlock control system on page 153.

Notes

- A driver must be in the vehicle to steer and operate the brakes.
- Drive slowly when towing.
- Power assist for brakes and power steering are not available when the engine is turned off. The brakes and steering still function, but require greater effort.
- To prevent exhaust fumes entering the towed vehicle, close the windows and press ⟲.
- Do not tow for more than 55 km or at speeds over 55 km/h.
- Vehicles with damaged transmissions must not be towed.
- The wheels, axles, drive train, steering and brakes must be in good condition.
- Only the driver should be inside a towed vehicle.

Towing another vehicle

In an emergency, another vehicle may be towed using the rear towing eye.



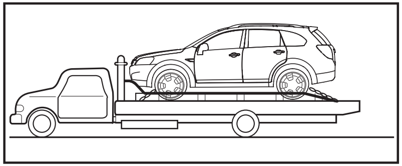
Emergency towing procedure

1. Locate the rear towing eye attachment in the compartment under the rear load area floor cover.
2. Open the cover plate on the bumper bar by pressing the base of the cover and pulling it downwards.
3. Screw the towing eye clockwise, firmly into place, using the handle of the wheel wrench. See Vehicle tools on page 214.

   Note
   Apply force in a straight direction. Do not apply force from any side direction.

Front Wheel Drive (FWD) vehicles

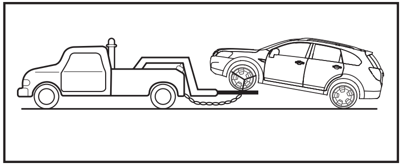
Flat-bed tow truck



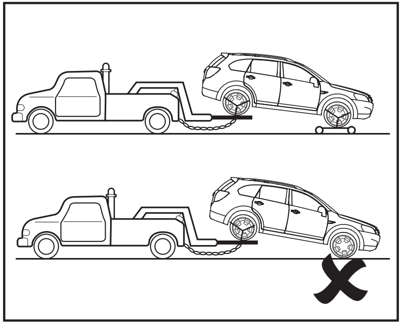
A flat-bed tow truck is the best method of towing the vehicle to avoid damage.

Standard tow truck

If a flat-bed tow truck is not available:



1. Use a standard tow truck, where the front wheels are raised and the rear wheels are in contact with the ground.



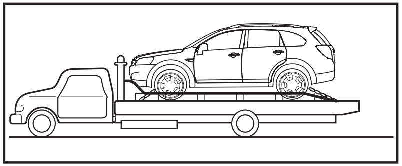
2. Alternatively, use a standard tow truck and a towing dolly to prevent the front wheels from contacting the road.

Caution

If the vehicle is towed with the front wheels contacting the road, the vehicle's drive system could be severely damaged.

All Wheel Drive (AWD) vehicles

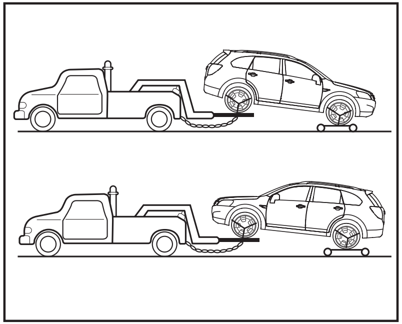
Flat-bed tow truck



A flat-bed tow truck is the best method of towing the vehicle to avoid damage.

Standard tow truck

If a flat-bed tow truck is not available:



Use a standard tow truck using a towing dolly to prevent the front or rear wheels from contacting the road.

Caution

If the vehicle is towed with the front or rear wheels contacting the road, the vehicle's drive system could be severely damaged.

Appearance care

Exterior care

Washing

The paintwork of the vehicle is exposed to environmental influences. Wash and wax regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner once a year, in addition to normal washing.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching the paint (other than water). The wipers must be switched off. Remove external accessories such as roof racks etc.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet as well as the areas they cover.

Have the door hinges of all doors greased by a Holden Dealer.

Caution

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse chamois frequently. Use separate chamois for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

Note
For certain body colours, some variation in gloss and colour may exist in the engine bay or load area and on the underside of the vehicle.

⚠Warning

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Exterior lamps

Headlamp and other lamp covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not dry-clean them.

Air intakes

Clear debris from the air intakes, between the bonnet and windscreen and below the front bumper, when washing the vehicle.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

- Never use abrasive cleaners to clean glass.
- Refer to a Holden Dealer for windscreen washer additive.
- Old wiper blades can cause windscreen scratching. Regularly inspect and replace them.

Caution

Do not operate the wiper blades by hand as this damages the wiper drive mechanism.

When cleaning the rear window, make sure the heating element inside is not damaged.

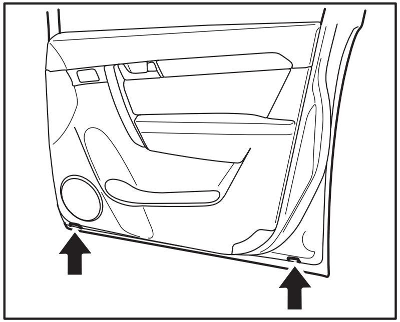
Clean smearing wiper blades with a soft cloth and window cleaner.

Wheels and tyres

Do not use high-pressure jet cleaners.

- Remove oil and grease with soap and water or detergent.
- Do not use petrol to clean tyres.
- Use a good quality tyre and bumper shine if required.
- A good quality wheel cleaner can be used for cleaning alloy wheels.
- Do not use abrasive cleaners.

Door drain holes



- Clear drain holes at the bottom of the door panels from dirt and other foreign materials which could trap water inside the panels.
- Clean clogged drain holes with a plastic pin or peg.
- Avoid scratching the paint work.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms.

Have more extensive damage or rust areas repaired by your Holden Dealer.

Caution

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paint work. If you do, wash it off immediately.

Underbody

Substances can cause rust under the vehicle.

- Hose the underbody with clean water whenever the vehicle is washed.
- Where the vehicle is exposed to heavy concentrations of corrosive materials, inspect and wash the complete underbody at least once each year, preferably after winter exposure.

Interior care

⚠Warning

Many cleaning products are toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Ensure that the vehicle is well ventilated while using any cleaners and always follow the cleaning product manufacturer's recommendations. Water based cleaners, rather than solvent based cleaners, are recommended.

Steam cleaning of seats is not recommended.

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with a mild, non-abrasive soap and lukewarm water.

After washing, thoroughly, sponge the solution out of the belts.

Leather

Clean regularly using a leather revitaliser or mild detergent.

- Apply revitaliser using a lint free cloth and rub it onto the leather.
- Do not saturate the leather with the cleaner and do not pour on directly.
- Allow to dry naturally.
- For deeply embedded soil and dirt, use a leather cleaner.
- After using a leather cleaner/ revitaliser, apply a leather protector.

  A leather protector is designed to repel dirt and provides water resistance.

Note

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes.

Caution

Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high pressure jet cleaners.

Floor mats

- Pull up the small peg at the corner to remove the mat.
- Push the mat down onto the peg to replace.

Service and maintenance

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Recommended fluids, lubricants and parts 237

General information

Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service/Warranty Booklet for the service schedules and for more information.

Engine oil life system

The vehicle has a computer system that lets you know when to change the engine oil and filter.

The frequency of the oil change depends on driving patterns, engine RPM and engine temperature.

When the system has calculated that oil life has been diminished, 🔧 will illuminate. See Change engine oil light on page 67.

When 🔧 illuminates continuously, have the engine oil and filter changed as soon as possible, within the next 1,000 km.

It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for a longer period than that shown in the Maintenance schedule. However, the engine oil and filter must be changed in accordance with the Maintenance schedule outlined in the Service/ Warranty Booklet.

Recommended fluids, lubricants and parts

Engine type	**Petrol 3.0 L DOHC V6**	**Petrol 2.4 L DOHC L4**	**Diesel 2.2 L DOHC L4**
Engine oil specification	5W-30; dexos (dexos™ 1);	5W-30; dexos (dexos™ 1);	5W-30; dexos (dexos™ 2);
	SAE 5W-30 is the best viscosity for the vehicle		
	SAE 0W-30/40 or 5W-40 can also be used		
Coolant specification	50% clean fresh water and 50% Dexcool® anti-freeze coolant, conforming to specification number GM6277M		
Automatic transmission fluid	Dexron® VI		
Differential oil	Synthetic Hypoid 75W/90 GL5		
Brake fluid	Hydraulic Brake Fluid SAE J1704 DOT 4 Grade		
Power steering fluid	Dexron® VI		
Battery for remote control	CR 20 32		
Battery	12 volts, 80 amp hours	12 volts, 60 amp hours	12 volts, 90 amp hours

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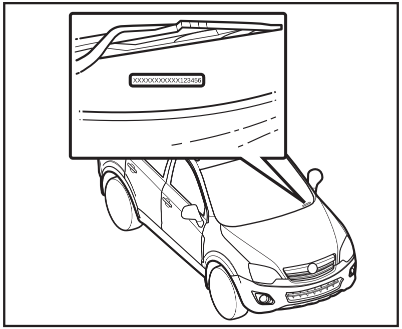
Vehicle identification

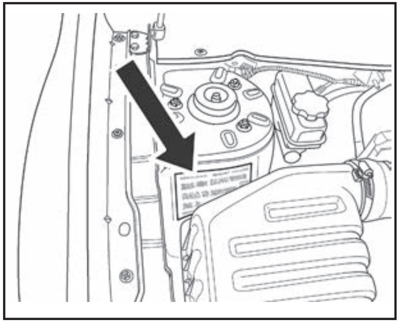
Identification number



The vehicle identification number (VIN) is located behind the windscreen on the passenger side.

Each vehicle has its own, individual identifier and is used for the identification of spare parts.

Compliance label

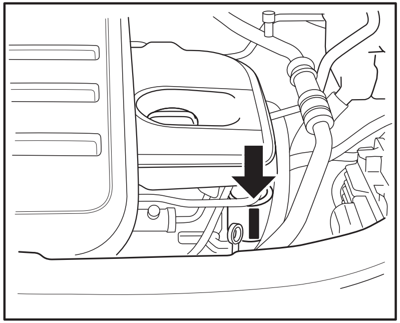


The compliance label is located inside the engine compartment at the front of the driver side suspension tower.

This label shows the vehicle make, model series, date of manufacture, VIN, approved seating capacity and approval number.

Engine number location

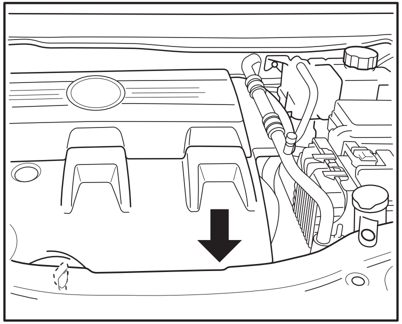
Petrol engines



2.4 L L4 engine shown

The engine number is located inside the engine compartment.

It is stamped into the metal, rearwards of the dipstick.

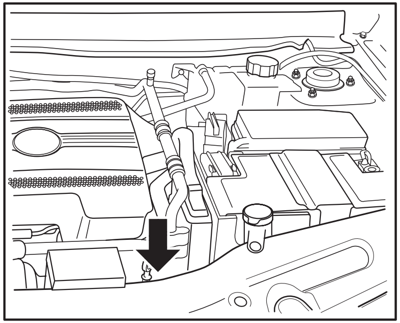


3.0 L V6 engine shown

The engine number is located inside the engine compartment.

It is stamped onto the engine block and is visible after the engine cover has been removed. See Engine cover removal on page 199.

Diesel engine



The engine number is located inside the engine compartment.

It is stamped onto the engine block under the oil filter dipstick, towards the passenger side.

Vehicle data

Engine data

Engine type	**Petrol** **3.0 L DOHC V6**	**Petrol** **2.4 L DOHC L4**	**Diesel** **2.2 L DOHC L4**
Engine capacity	2,997	2,384	2,231
Engine power and torque	Please refer to holden.com.au		
Octane rating (RON)	Unleaded regular 91 or higher		-
Diesel fuel	-	-	Meeting Euro Standard EN590

Vehicle weight

Overloading is a safety hazard and could also shorten the life of the vehicle.

Maximum vehicle payloads

Occupants (average 68 kg each)	**Luggage (kg)**	**Total load (kg)**
5	68	408
7	95	571

Axle loads

Maximum front and rear axle loads

Do not exceed the maximum axle loads, including the weight of any options or accessories fitted to the vehicle.
Take the roof rack load into account when determining the rear axle load. Weigh at a weighbridge if unsure.

Front axle load (kg)	Rear axle load (kg)
1,250	1,350

Dimensions (mm)

Length	Width (excl. mirrors)	Height (excl. roof rail)	Height (incl. roof rail)	Wheel base	Front track	Rear track
4,673	1,849	1,727	1,756	2,707	1,569	1,576

Capacities

Engine type	Petrol 3.0 L DOHC V6	Petrol 2.4 L DOHC L4	Diesel 2.2 L DOHC L4
Refill engine oil including filter	5.7 L	4.7 L	5.6 L
Coolant	10.0 L	8.5 L	9.0 L
Fuel tank	65.0 L	65.0 L	65.0 L

Tyre pressure

Tyre size	**Recommended cold tyre inflation pressure**									
	Normal load				**Maximum load**				**Spare**	
	Front		Rear		Front		Rear		-	
	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
235/60 R17 102H	240	35	240	35	240	35	280	41	-	-
235/55 R18 100H	240	35	240	35	240	35	280	41	-	-
235/50 R19 99H	240	35	240	35	240	35	280	41	-	-
T215/70 R16 100	-	-	-	-	-	-	-	-	280	41

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Customer satisfaction procedure

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing, parts/accessories or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer Sales and Service Department.

We realise however that, with the best intentions, misunderstandings sometimes occur.

Therefore, we suggest you discuss any concern with one of the Holden Dealer management people.

If you have not received satisfaction from the Sales Manager or Service Manager, go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

Customer assistance offices

Australia

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call.

The contact number is:

1800 033 349

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne 3001

Your letter should clearly outline your concern or query and include:

- Your name and address
- Telephone numbers, both private and business
- Servicing dealer's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the Service/ Warranty Booklet in your vehicle's glove box
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the Service/Warranty Booklet in your vehicle's glove box.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

New Zealand

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand.

Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glove box wallet.

New Zealand Assistance can be reached on:

0800 HOLDEN (**0800 465 336**)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
PO Box 11195
Ellerslie
Auckland 1542

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